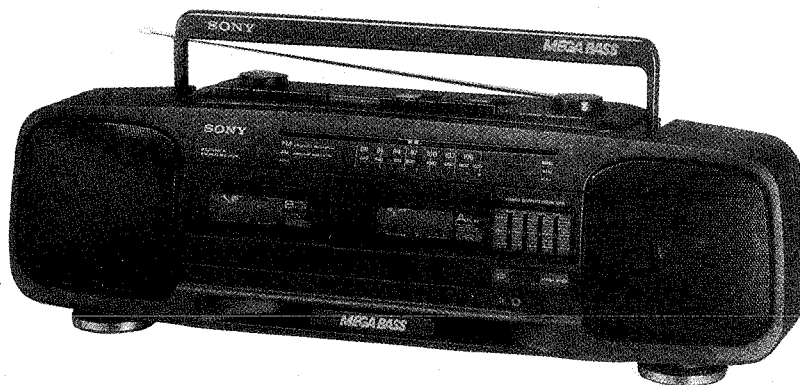


CFS-DW34

SERVICE MANUAL

*US Model
Canadian Model
AEP Model*



Model Name Using Similar Mechanism	CFS-W304
Tape Transport Mechanism Type	MF-W304-64

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model) POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 6 ohm loads, both channels driven, from 80–10,000Hz; rated 4.6W per channel minimum, RMS power, with no more than 10% total harmonic distortion in AC operation.

Other specifications

Frequency range

	FM	AM
US, Canadian model	87.6–108MHz	530–1,710kHz
AEP model	87.6–107MHz	531–1,602kHz
Italian model	87.5–108MHz	526.5–1,606.5kHz

Frequency response 80–10,000Hz

Speakers 8cm (3¹/₄ inches) dia. full range×2

Inputs MIX MIC jack (monaural minijack): Sensitivity 3.09 mV, for low impedance microphone

CD/LINE IN jacks (phono jacks): Sensitivity 0.44 V, input impedance 50 kilohms

Output Headphones jack (stereo minijack) for 16–68 ohm impedance Headphones

Maximum power 10W(5W+5W)

Power output (Canadian model) 5W+5W (at 10% harmonic distortion) in DC operation

Maximum power output

(AEP, Italian model) 10W (5W+5W)

output 10W (5W+5W)

Power requirements 120V AC, 60Hz (US Canadian model)
220V AC 50Hz (AEP, Italian model)
9V DC, six size D (R20) batteries

Power consumption

US, Canadian model	15W
AEP, Italian model	18W

Battery life

Batteries	FR recording
Sony SUM-1 (NS)	Approx. 9 hours
Sony AM-1 (N) alkaline	Approx. 29 hours

Dimensions

Approx. 630×190×172mm (w/h/d)
(24⁷/₈×7¹/₂×6⁷/₈ inches)

incl. projecting parts and controls, not incl. handle

Weight

Approx. 5.6kg (12 lb 5 oz) incl. batteries

Supplied accessory AC power cord (1)

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Design and specifications subject to change without notice.

RADIO CASSETTE-CORDER
SONY®



SAFETY CHECK-OUT

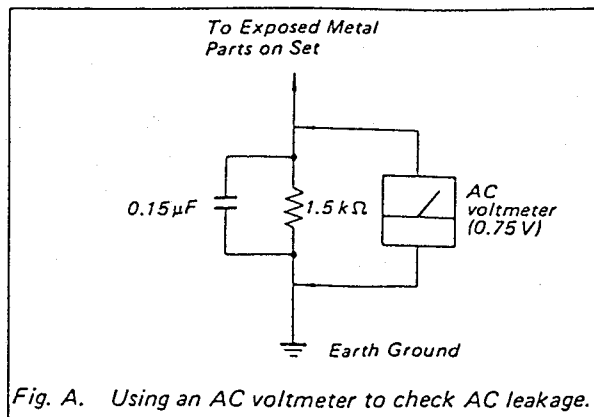
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

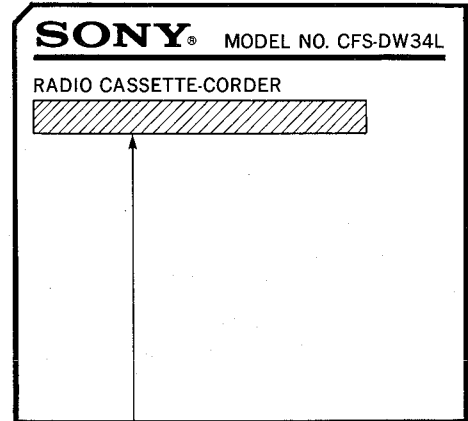
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



MODEL IDENTIFICATION

—Specification Label—



US model : AC: 120V 60Hz 15W
 Canadian model : AC: 120V 60Hz 20W
 AEP, Italian (IT) model : AC: 220V~50Hz 18W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

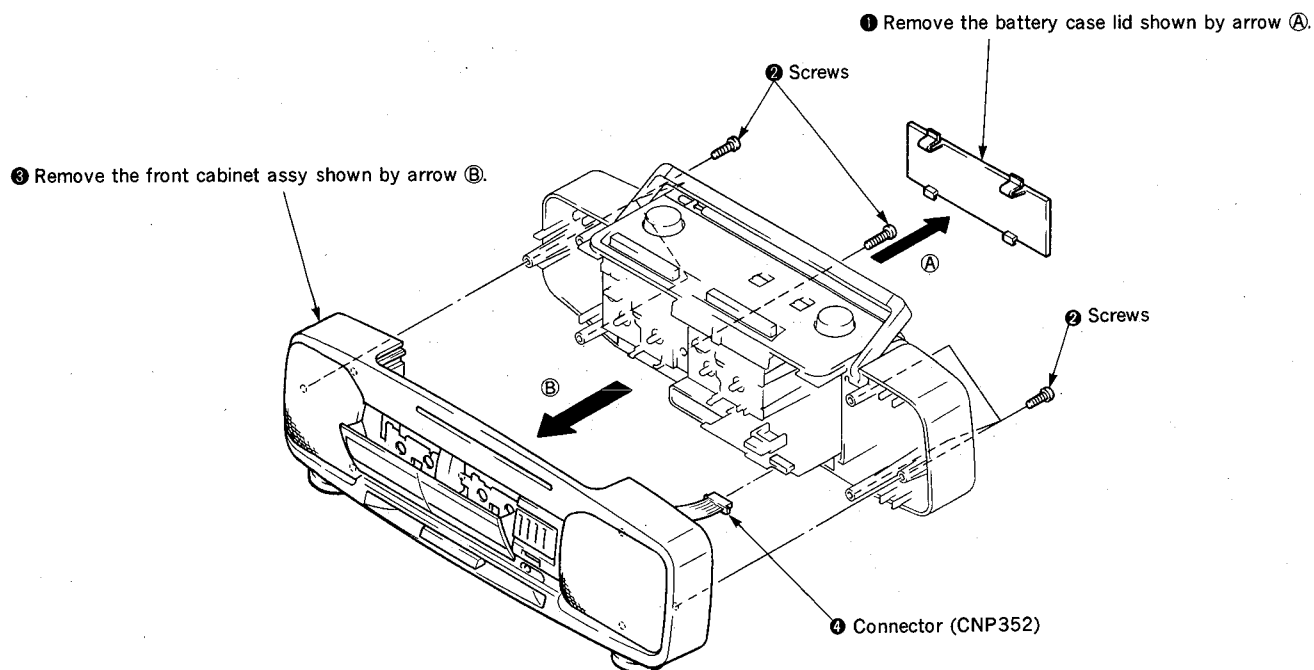
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

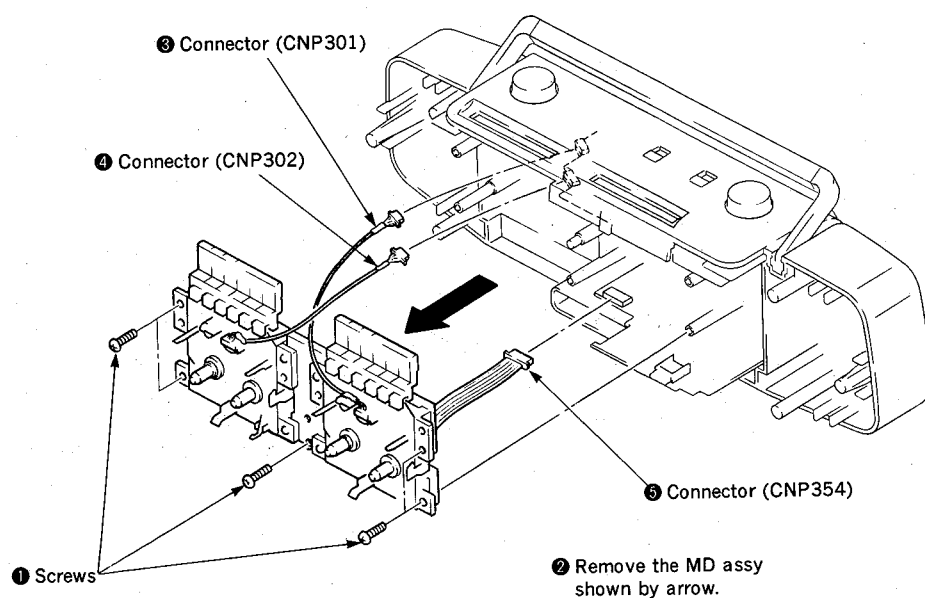
SECTION 1 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

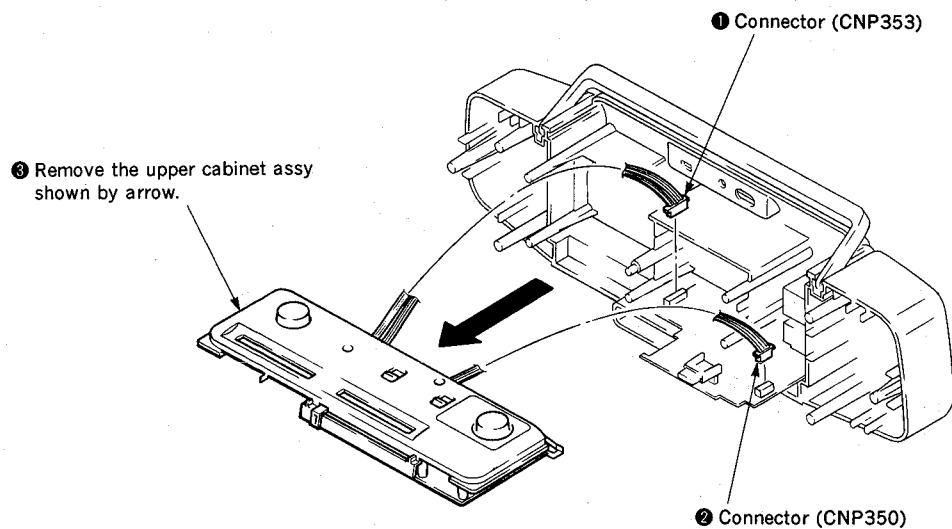
1-1. REMOVAL OF FRONT CABINET ASSEMBLY



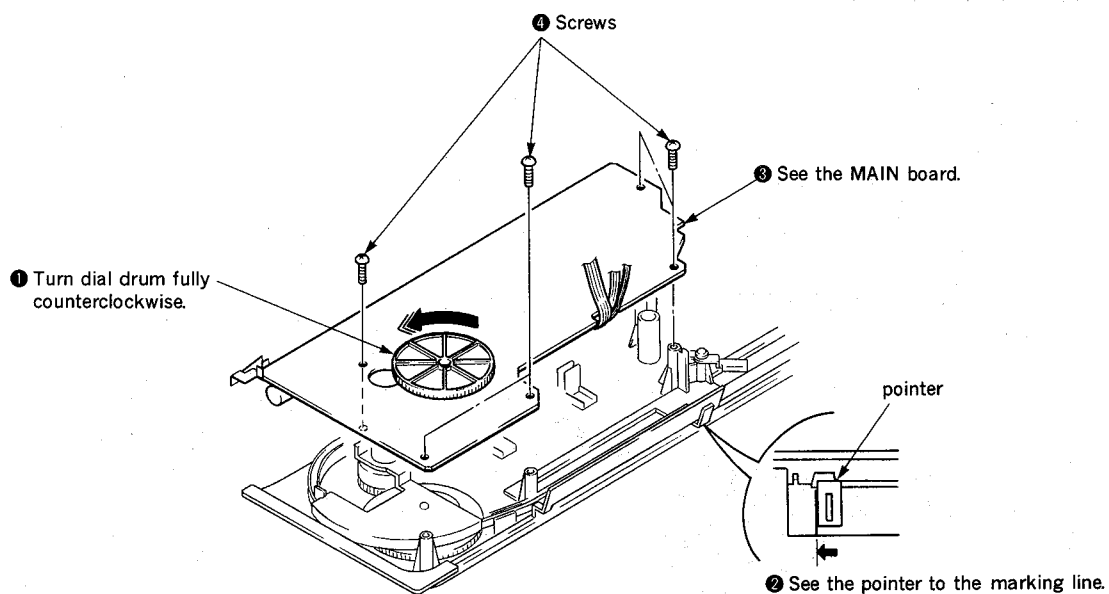
1-2. REMOVAL OF MD ASSEMBLY



1-3. REMOVAL OF UPPER CABINET ASSEMBLY



1-4. DIAL POINTER SETTING



SECTION 2 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab :

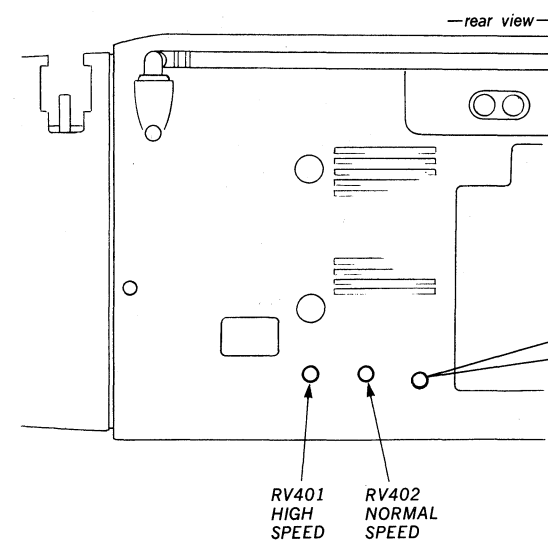
record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- Power supply voltage: 9V dc.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	20-60g·cm (0.28-0.83 oz·inch)
Forward back tension	CQ-102C	2-6g·cm (0.028-0.083 oz·inch)
Reverse	CQ-102RC	20-60g·cm (0.28-0.83 oz·inch)
Reverse back tension	CQ-102RC	2-6g·cm (0.028-0.083 oz·inch)
Fast Forward	CQ-201B	more than 45g·cm (more than 0.62 oz·inch)
Rewind	CQ-201B	more than 45g·cm (more than 0.62 oz·inch)

Tape Tension Measurement

Mode	Meter	Meter Reading
Forward	CQ-403A	more than 70g (more than 2.47 oz)
Reverse	CQ-403R	



SECTION 3 ELECTRICAL ADJUSTMENTS

3-1. TAPE RECORDER SECTION

Standard Input Level

Input terminal	LINE IN	MIX MIC
source impedance	10kΩ	300Ω
input signal level	0.44V (-5dB)	7.07mV (-48dB)

Standard Output Level

Output terminal	SP OUT	HP OUT
load impedance	6Ω	32Ω
output signal level	0.775V (0dB)	0.25V (-10dB)

Test Tape

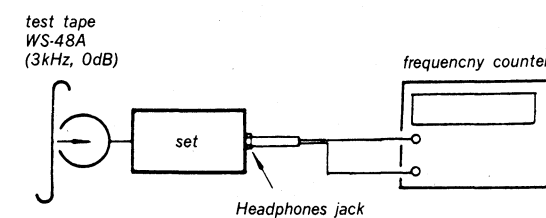
Type	Signal	Used for
WS-48A	3kHz, 0dB	tape speed adjustment

Tape Speed Adjustment **DECK A** **DECK B**

Procedure :

- Perform high speed adjustment before normal speed adjustment.

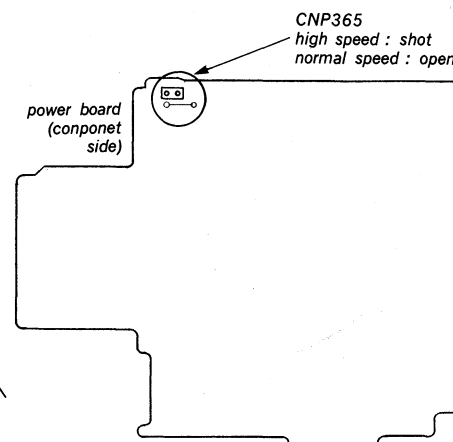
Mode: playback



Speed	Test point CNP365	Deck	Adjustment point	Frequency counter
High	short	A	RV401	5,685-5,715Hz
		B	confirm	
Normal	open	A	RV402	2,970-3,000Hz
		B	confirm	

Frequency difference between the beginning and the end of the tape should be within $\pm 1.5\%$.

Adjustment Location :

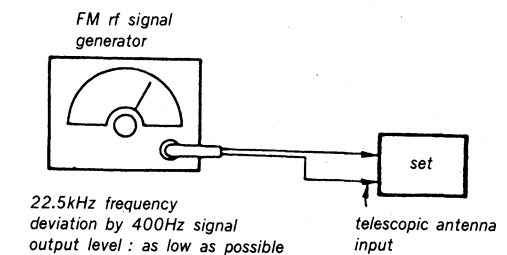


3-2. RADIO SECTION

• FM Section

Setting :

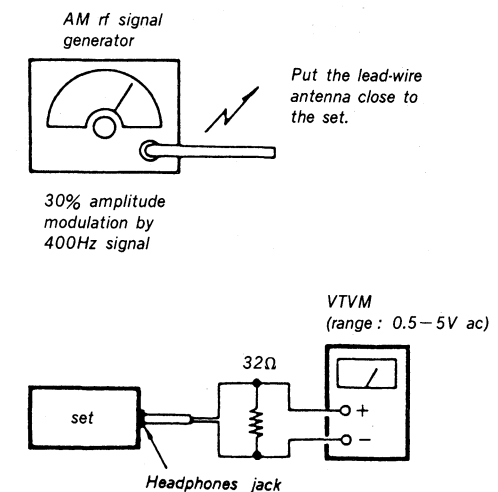
FUNCTION switch : FM



• AM Section

Setting :

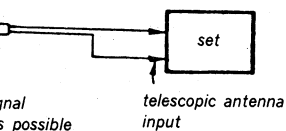
FUNCTION switch : AM



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

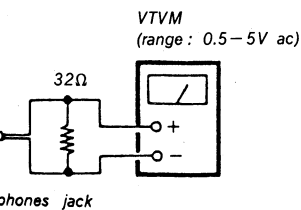
ION

FM



AM

Put the lead-wire antenna close to the set.



Repeat the above procedures in each adjustment several times, until the frequency coverage and tracking adjustments are satisfactory. These adjustments are made by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L2	CT2
US, CND: 86.5MHz AEP: 87.0 MHz IT: 87.35MHz	US, CND: 109.5MHz AEP: 108.3 MHz IT: 108.25MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	CT1
US, CND: 86.5MHz AEP: 87.0 MHz IT: 87.35MHz	US, CND: 109.5MHz AEP: 108.3 MHz IT: 108.25MHz

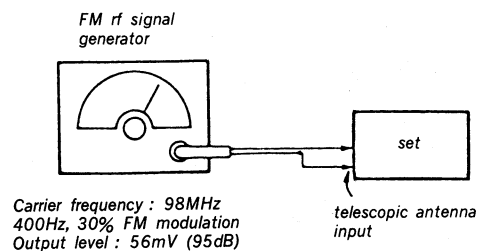
AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L4	CT4
US, CND, AEP: 520kHz IT: 516kHz	US, CND: 1,780kHz AEP: 1,680kHz IT: 1,630kHz

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L3	CT3
600kHz	US, CND: 1,500kHz AEP, IT: 1,400kHz

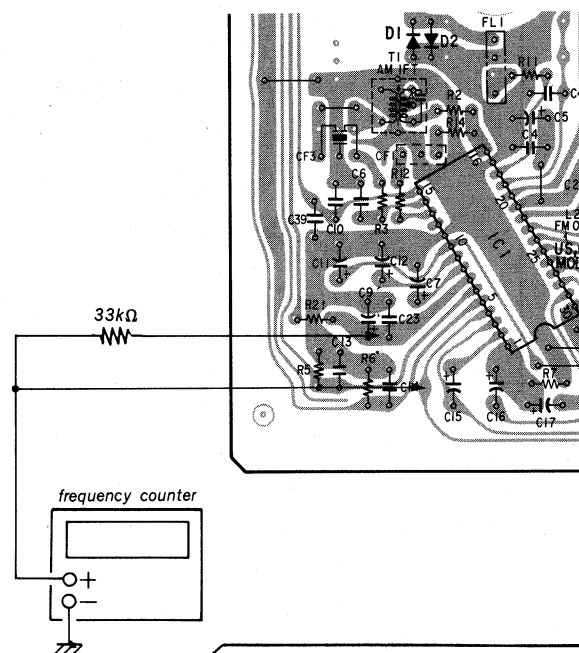
AM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1	
455kHz	

- CND: Canadian model
- IT: Italian mode

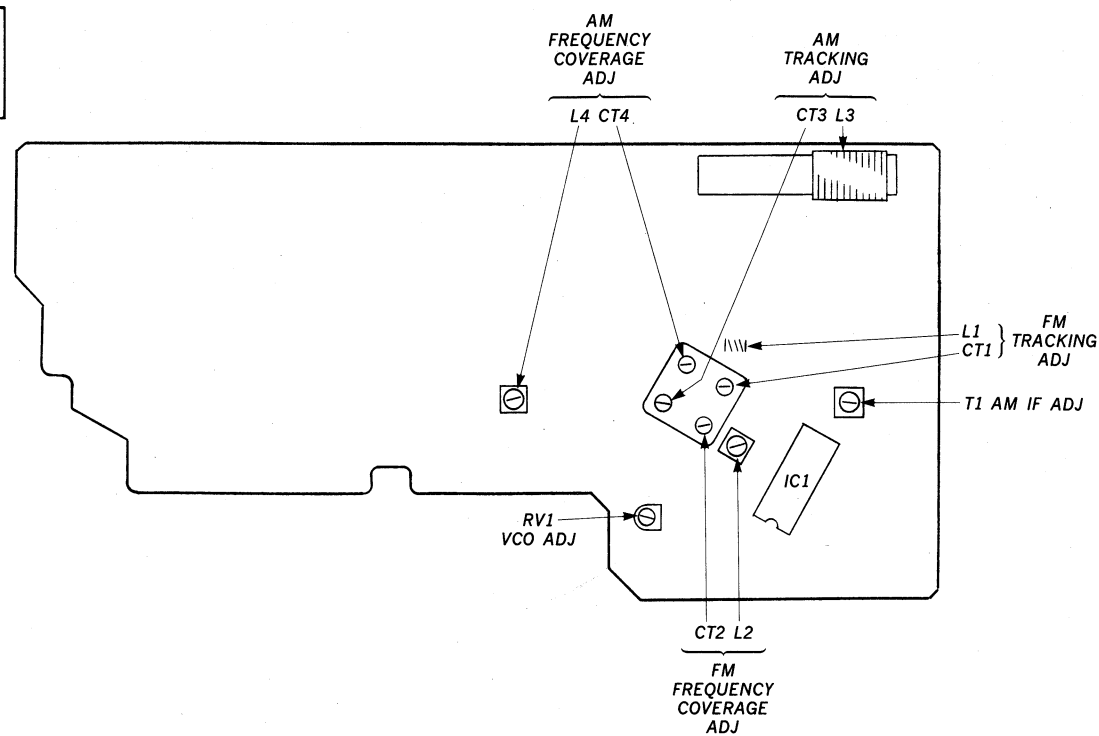
VCO Adjustment Procedure :



1. Connect frequency counter to the positions shown below.
2. Tune the set to 98MHz.
3. Adjust RV1 for 76kHz $\pm$ 500Hz reading on the frequency counter.



Adjustment Location : main board (component side)



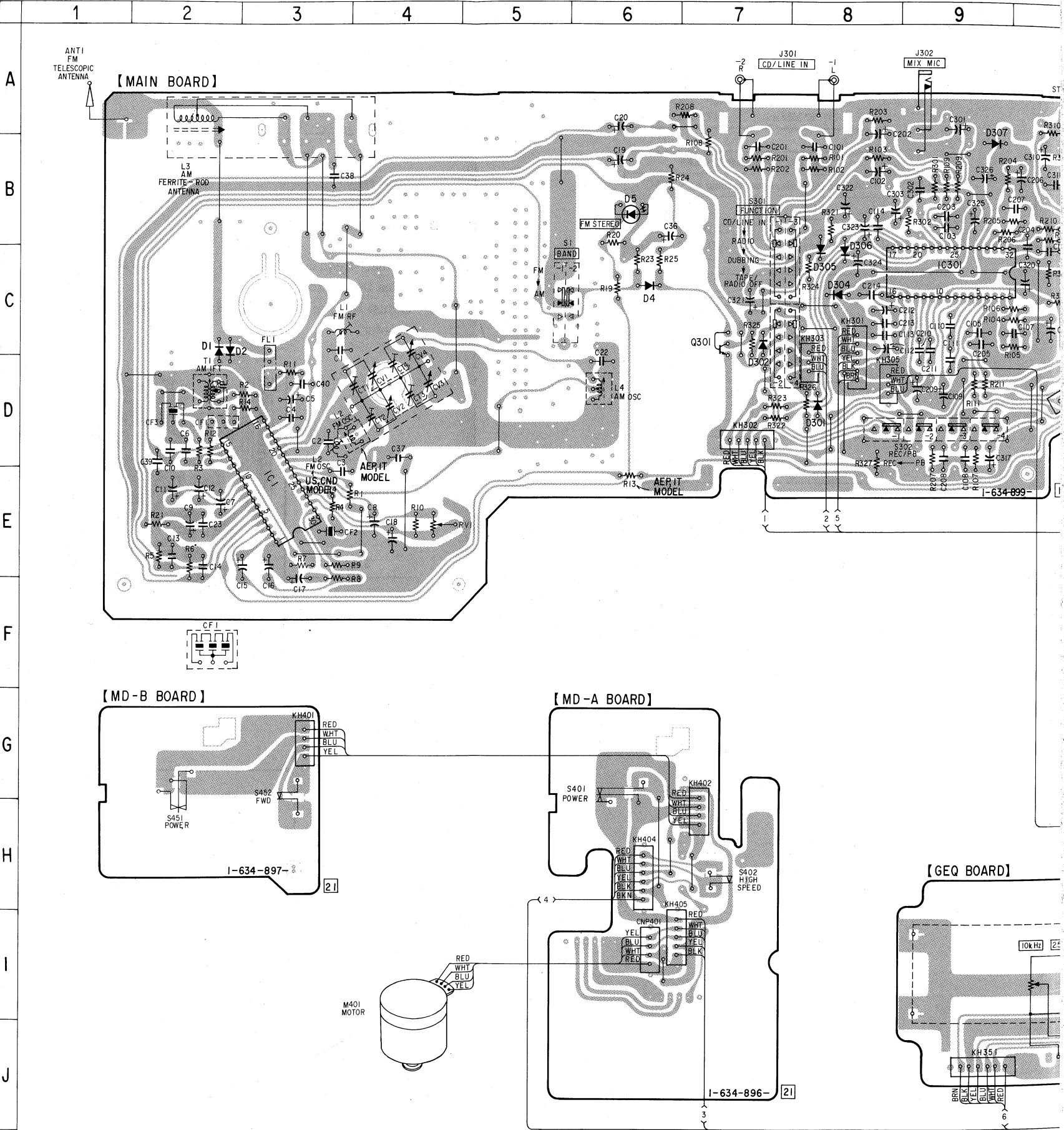
SECTION 4
DIAGRAMS

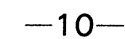
• Semiconductor Location

Ref. No.	Location
D1	C-2
D2	C-2
D4	C-6
D5	B-6
D301	D-8
D302	C-7
D303	C-10
D304	C-8
D305	C-8
D306	C-8
D307	B-9
D350	F-19
D351	F-19
D352	G-21
D401	D-17
D402	E-20
D901	E-16
D902	F-16
D903	E-16
D904	F-16
IC1	E-3
IC301	C-9
IC350	H-14
IC351	F-18
Q301	C-7
Q310	B-10
Q350	G-16
Q351	G-16
Q370	E-19
Q401	F-20
Q402	D-19
Q403	D-17
Q404	D-17
Q405	F-20
Q406	F-20

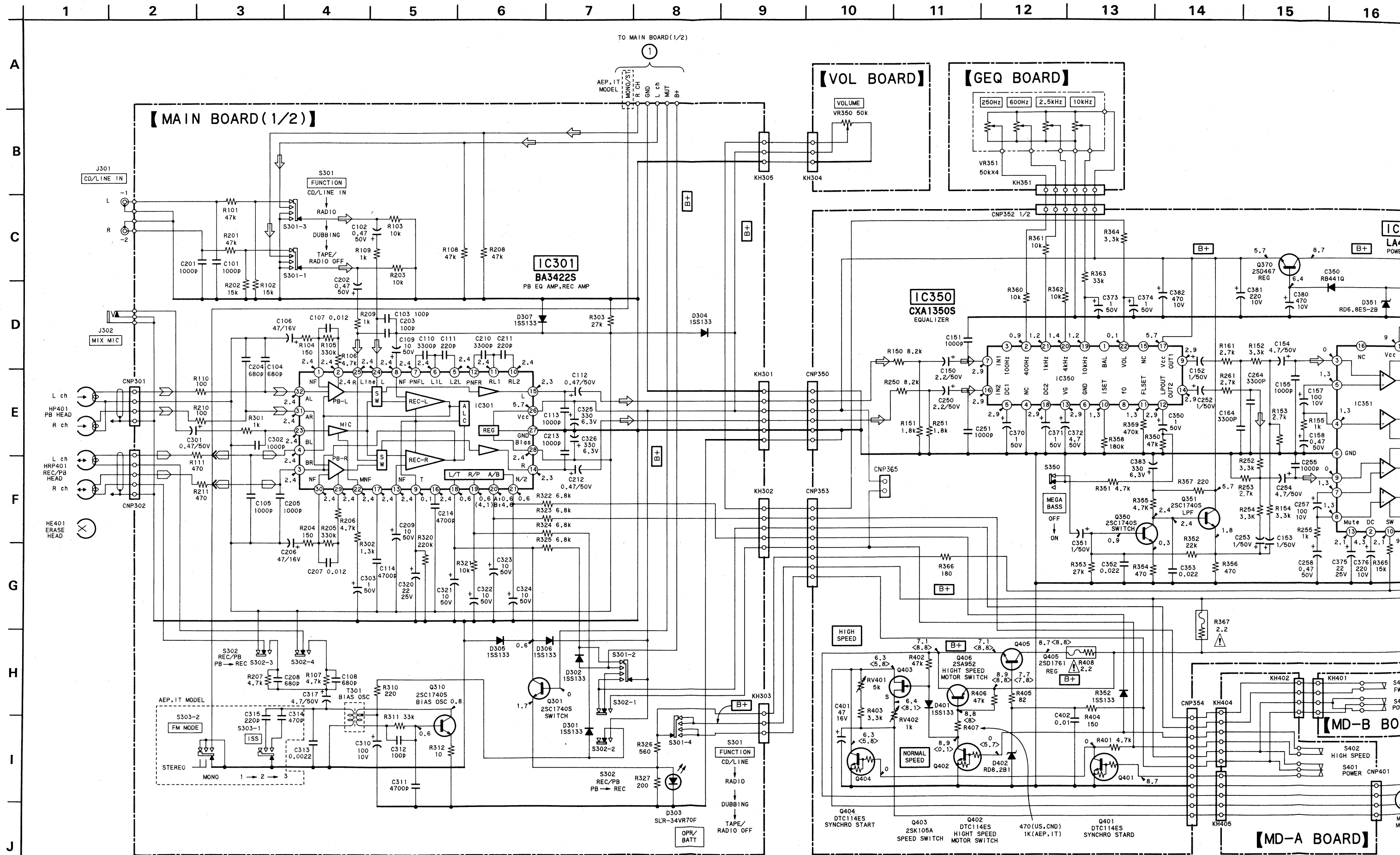
Note:
• ○ : parts extracted from the component side.
• CND: Canadian model
• IT : Italian model

4-1. PRINTED WIRING BOARD



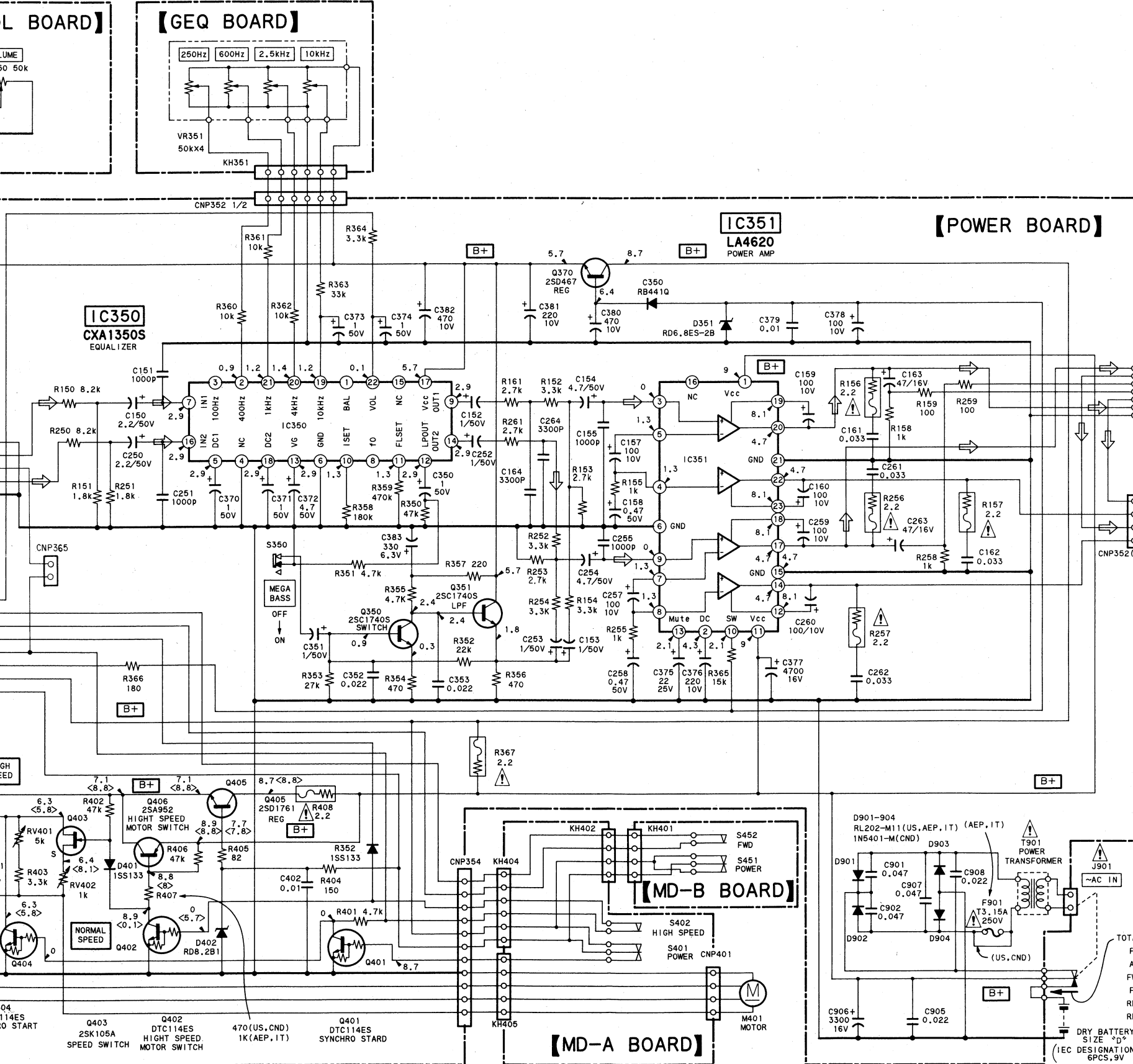


4-2. SCHEMATIC DIAGRAM—AUDIO SECTION—



L BOARD

GEQ BOARD



—Audio Section—

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : fusible resistor.

Note:

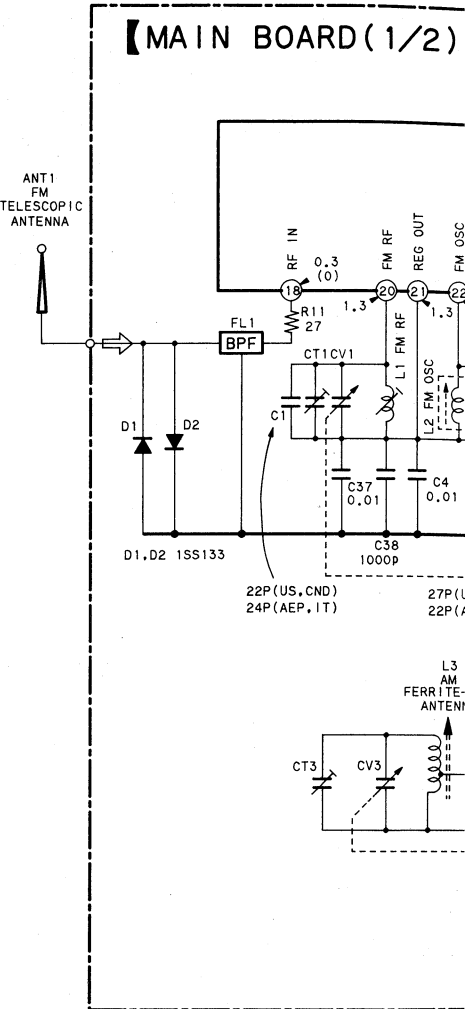
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

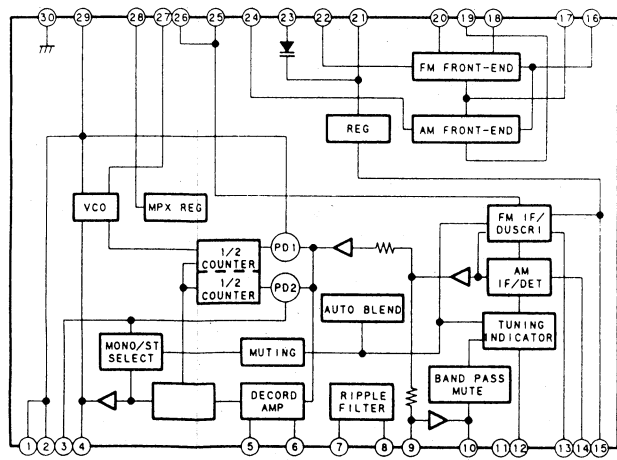
- : adjustment for repair.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : PLAY
() : REC
< > : HIGH SPEED
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 - : FM
 - : PB (DECK A)
 - : PB (DECK B)
 - : REC (DECK B)
- CND : Canadian model
- IT : Italian model

MAIN BOARD (1/2)

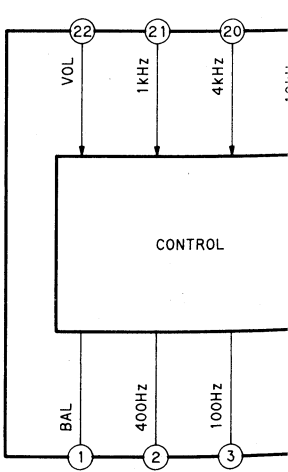


• IC Block Diagrams

IC1 CXA1238S



IC350 CXA1350S



4-3. SCHEMATIC DIAGRAM—TUNER SECTION—

21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

—Audio Section—

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : fusible resistor.

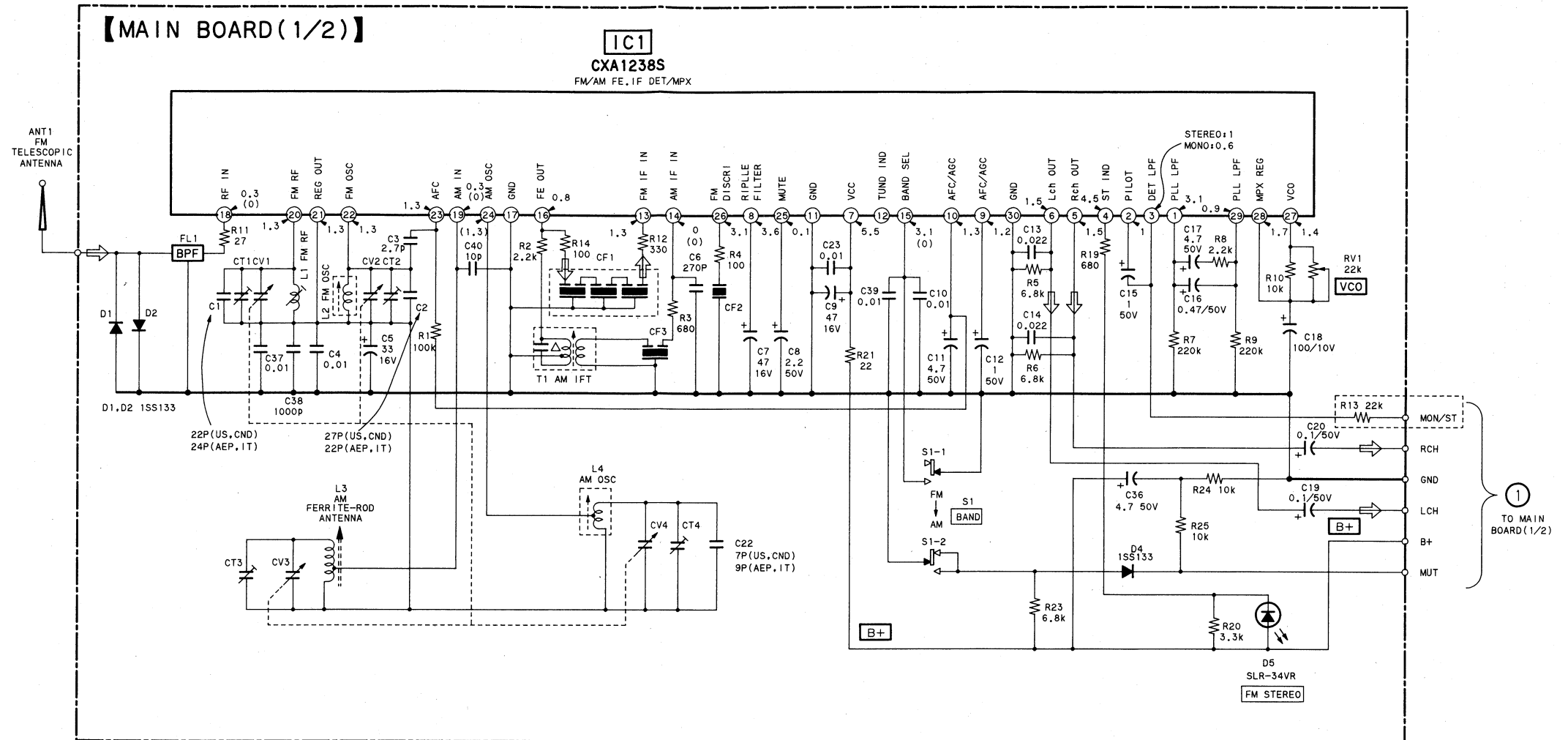
Note:

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

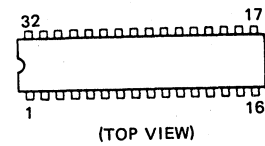
- : adjustment for repair.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark: PLAY
(): REC
< > : HIGH SPEED
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : FM : PB (DECK A)
 : PB (DECK B)
 : REC (DECK B)
- CND : Canadian model
• IT : Italian model



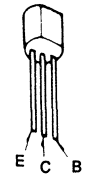
SECTION 5 EXPLODED VIEWS

4-4. SEMICONDUCTOR LEAD LAYOUT

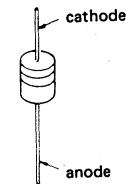
BA3422S



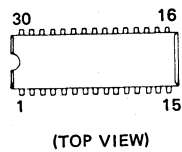
2CA952-K2



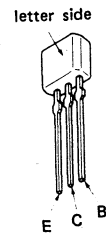
RB441QT-77
RD6,8ES-B2
RD8,2ES-B1
1SS119



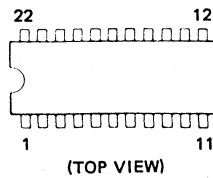
CXA1238S



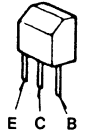
2SC2785-HFE



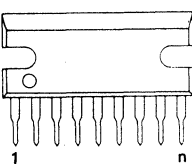
CXA1350S



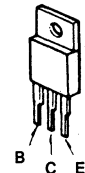
2SD773



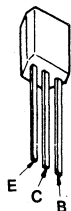
LA4620



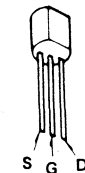
2SD1585-K



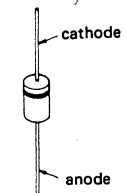
DTC114ES



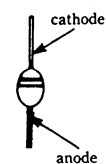
2SK105A-30



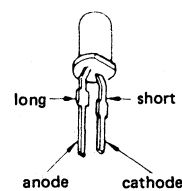
RL202-M11



U15G



GL-3PR9



NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts

Example:
(RED) ... KNOB, BALANCE (WHITE)

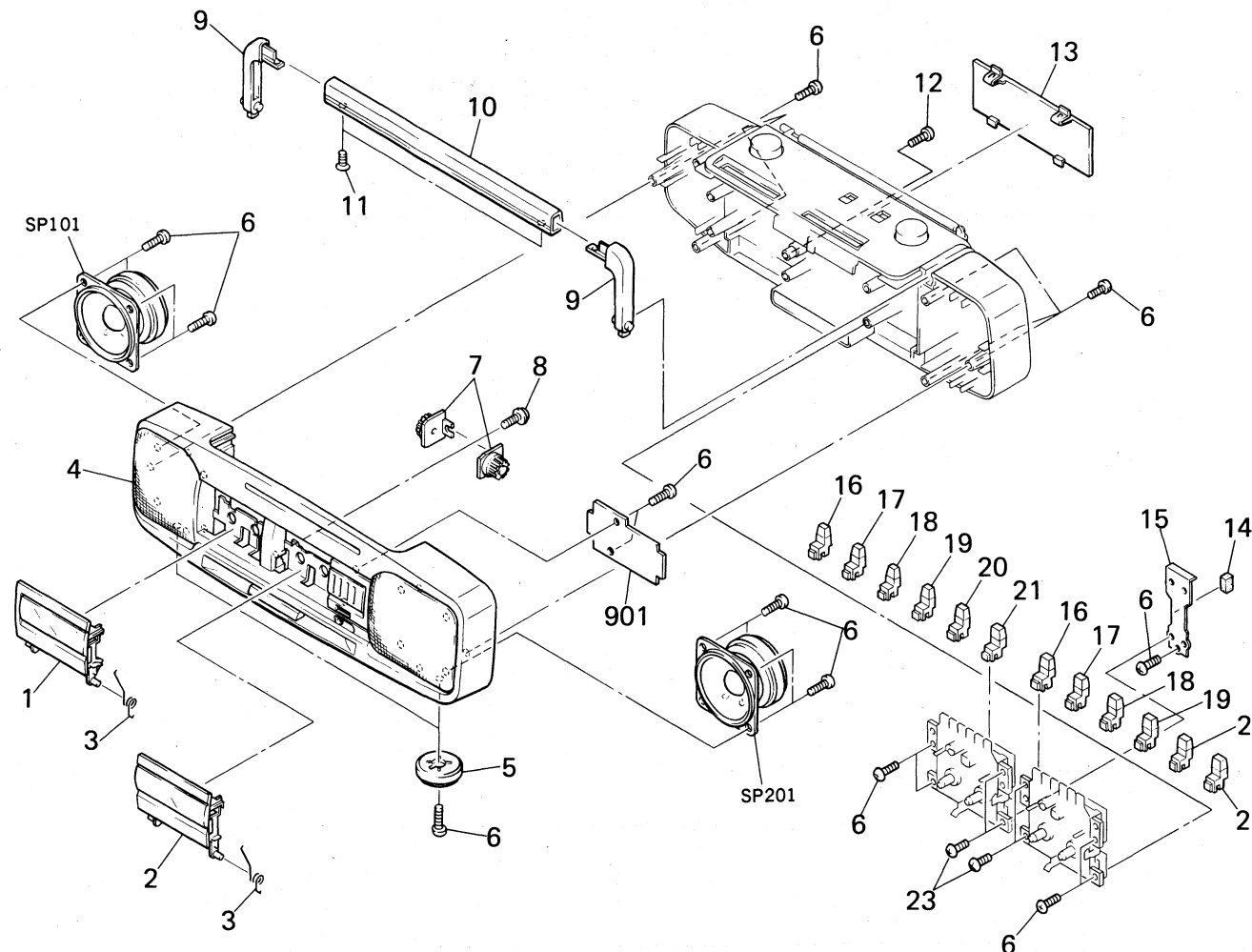
Cabinet's Color

Parts Color

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

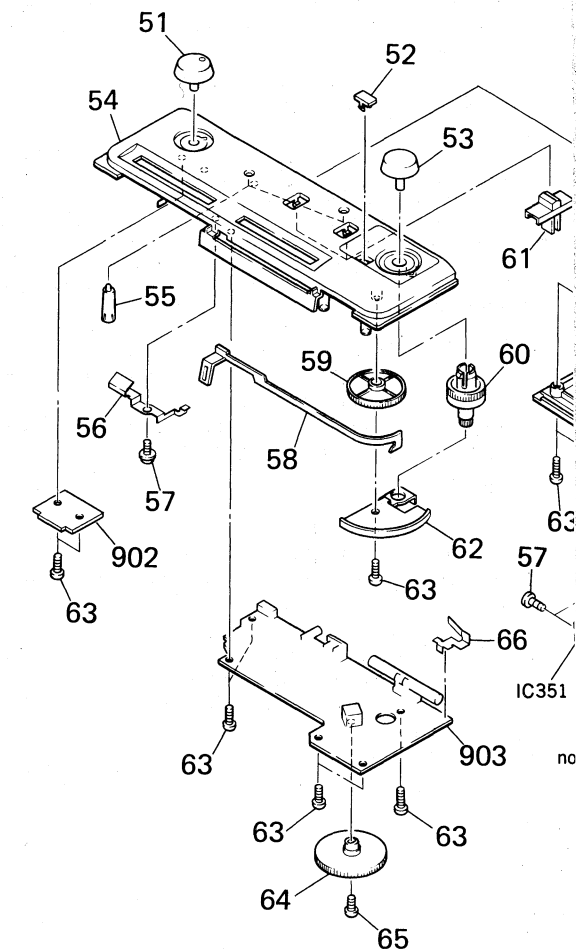
5-1. CABINET



Ref.No	Part No.	Description	Remarks
1	A-3247-434-A	HOLDER (B) ASSY, CASSETTE	
2	A-3247-433-A	HOLDER (A) ASSY, CASSETTE	
3	3-359-328-01	SPRING (CASSETTE)	
4	A-3242-803-A	(US, CND) ... CABINET (FRONT) SUB ASSY	
4	A-3242-903-A	(AEP, IT) ... CABINET (FRONT) SUB ASSY	
4	A-3242-907-A	(IT) ... CABINET (FRONT) SUB ASSY	
5	3-359-334-01	FOOT	
6	3-325-679-21	SCREW, TAPPING + BV 3X12	
7	3-351-377-11	DAMPER	
8	3-703-136-11	+PWH 3X12	
9	3-343-063-41	PLATE, SIDE, HANDLE	
10	3-359-332-01	HANDLE	
11	7-685-249-29	SCREW +KTP 3X14 TYPE2 SLIT	
12	7-685-651-71	SCREW +BVTP 3X20 TYPE2 IT-3	

Ref.No	Part No.	Description	Remarks
13	3-359-358-01	LID, BATTERY CASE	
14	4-934-522-01	CUSHION	
15	*4-934-517-01	JOINT	
16	3-359-344-01	BUTTON (PAUSE)	
17	3-359-343-01	BUTTON (FF)	
18	3-359-342-01	BUTTON (REW)	
19	3-359-341-01	BUTTON (PLAY)	
20	3-359-340-01	BUTTON (REC)	
21	3-359-339-01	BUTTON (STOP/EJECT)	
22	3-359-345-01	BUTTON (DUBBING)	
23	7-682-548-04	SCREW +BVTT 3X8 (S)	
901	*1-634-898-21	PC BOARD, GEQ	
SP101	1-544-369-11	SPEAKER	
SP201	1-544-369-11	SPEAKER	

5-2. UPPER, PEAR CABINET

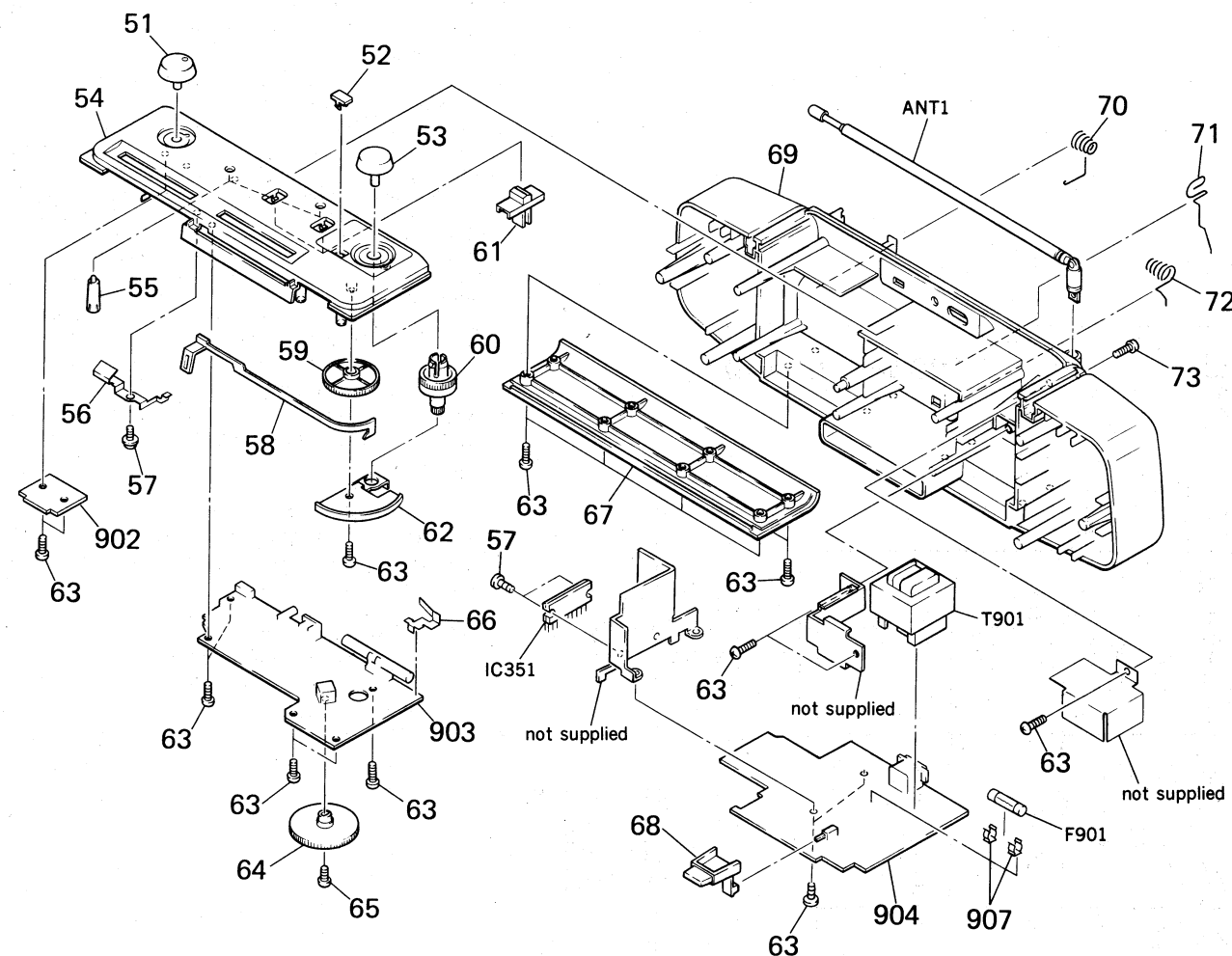


Ref.No	Part No.	Description	Remarks
51	3-359-309-01	KNOB (VOLUME)	
52	*3-359-311-01	(AEP, IT) ... CAP	
53	3-359-310-01	KNOB (TUNING)	
54	3-359-361-11	(US, CND) ... CABINET (UPPER)	
54	3-359-361-31	(AEP, IT) ... CABINET (UPPER)	
55	3-359-308-01	HOLDER (LED)	
56	*3-359-324-01	LEVER (A)	
57	3-703-136-11	+PWH 3X12	
58	3-359-338-01	POINTER	
59	*3-359-336-01	GEAR (B)	
60	*3-359-335-01	GEAR (A)	
61	3-359-306-01	KNOB (FUNCTION)	
62	*3-359-337-01	HOLDER (TUNING)	
63	3-325-679-21	SCREW, TAPPING + BV 3X12	
64	*3-359-305-01	DRUM, DIAL	
65	7-621-259-34	SCREW +P 2.6X5	
66	*3-359-325-01	TERMINAL, TRANSFORMER	
67	3-359-363-01	(CND, AEP, IT) ... CABINET (LOWER)	
67	3-359-363-11	(US) ... CABINET (LOWER)	
68	3-359-307-01	KNOB (M)	
69	3-359-360-01	(AEP, IT) ... CABINET (REAR)	
69	3-359-360-11	(US, CND) ... CABINET (REAR)	
70	3-359-331-01	TERMINAL (+, -), BATTERY	

Identified by
line with mark
safety.
part number

Identifiés par une
lignes pour la
sécurité.
numéro de pièce
spécifié.

5-2. UPPER, PEAR CABINET



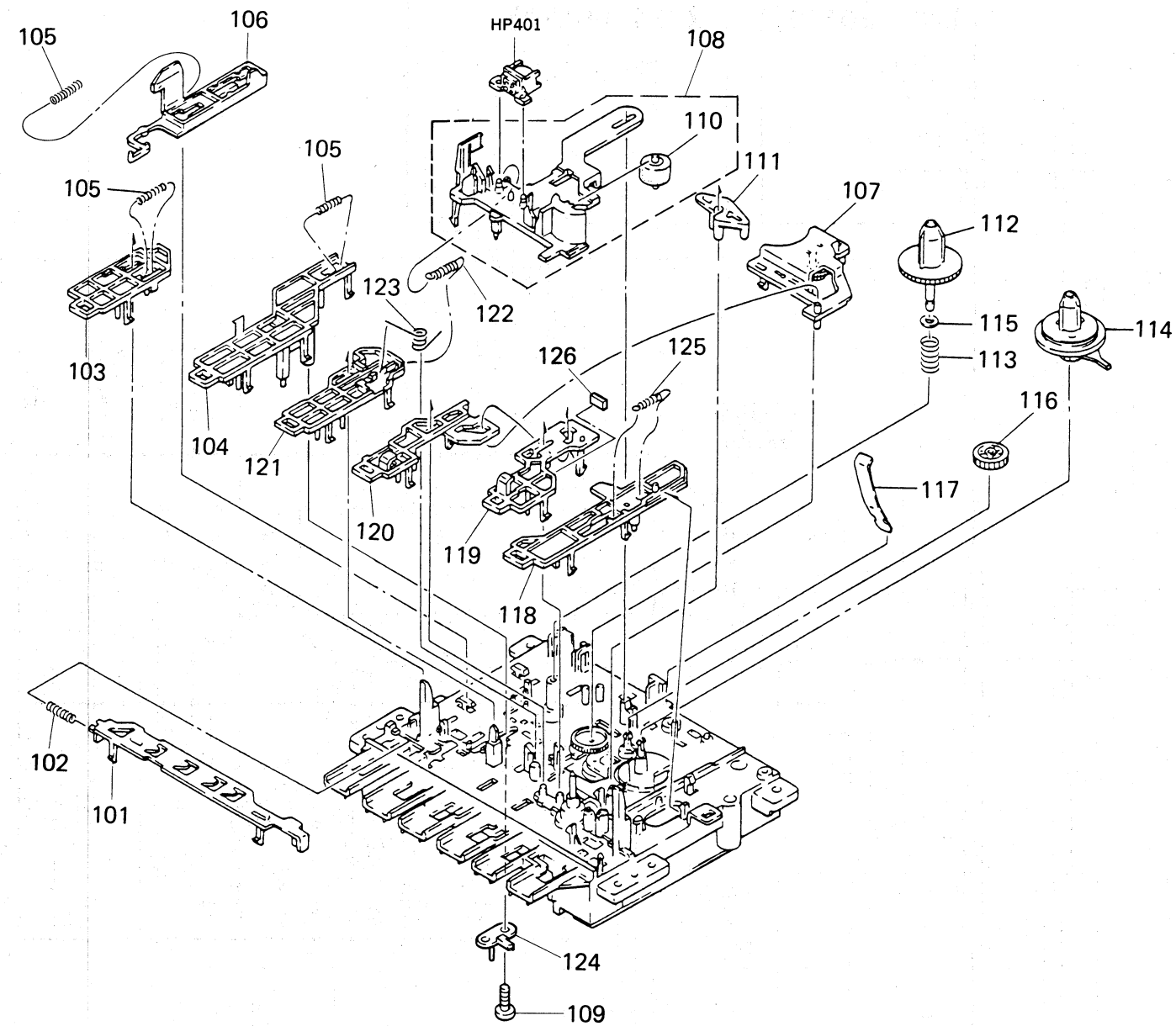
Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remarks
51	3-359-309-01	KNOB (VOLUME)	
52	*3-359-311-01	(AEP, IT)....CAP	
53	3-359-310-01	KNOB (TUNING)	
54	3-359-361-11	(US, CND)....CABINET (UPPER)	
54	3-359-361-31	(AEP, IT)....CABINET (UPPER)	
55	3-359-308-01	HOLDER (LED)	
56	*3-359-324-01	LEVER (A)	
57	3-703-136-11	+PWH 3X12	
58	3-359-338-01	POINTER	
59	*3-359-336-01	GEAR (B)	
60	*3-359-335-01	GEAR (A)	
61	3-359-306-01	KNOB (FUNCTION)	
62	*3-359-337-01	HOLDER (TUNING)	
63	3-325-679-21	SCREW, TAPPING +BV 3X12	
64	*3-359-305-01	DRUM, DIAL	
65	7-621-259-34	SCREW +P 2.6X5	
66	*3-359-325-01	TERMINAL, TRANSFORMER	
67	3-359-363-01	(CND, AEP, IT)....CABINET (LOWER)	
67	3-359-363-11	(US)....CABINET (LOWER)	
68	3-359-307-01	KNOB (M)	
69	3-359-360-01	(AEP, IT)....CABINET (REAR)	
69	3-359-360-11	(US, CND)....CABINET (REAR)	
70	3-359-331-01	TERMINAL (+, -), BATTERY	

Ref.No	Part No.	Description	Remarks
71	3-359-329-01	TERMINAL (+), BATTERY	
72	3-359-330-01	TERMINAL (-), BATTERY	
73	7-682-550-04	SCREW +B 3X12	
902	*1-634-901-11	PC BOARD, VOL	
903	*A-3270-758-A	(US, CND)....MOUNTED PCB, MAIN	
903	*A-3270-811-A	(AEP)....MOUNTED PCB, MAIN	
903	*A-3270-813-A	(IT)....MOUNTED PCB, MAIN	
904	*A-3270-769-A	(US)....MOUNTED PCB, POWER	
904	*A-3270-770-A	(AEP, IT)....MOUNTED PCB, POWER	
904	*A-3270-809-A	(CND)....MOUNTED PCB, POWER	
905	*1-634-896-21	PC BOARD, MD-A	
906	*1-634-897-21	PC BOARD, MD-B	
907	1-533-217-31	(AEP, IT)....HOLDER, FUSE	
ANT1	1-501-378-11	(AEP, IT)....ANTENNA, TELESCOPIC	
ANT1	1-501-388-21	(US, CND)....ANTENNA, TELESCOPIC	
F901	 1-532-237-00	(AEP, IT)....FUSE, TIME LAG (T3, 15A)	
IC351	8-759-822-51	IC LA4620	
J901	 1-526-818-11	(US, CND)....INLET, AC (~AC IN)	
J901	 1-526-838-11	(AEP, IT)....INLET, AC 2P (~AC IN)	
T901	 1-449-199-11	(US)....TRANSFORMER, POWER	
T901	 1-449-200-11	(AEP, IT)....TRANSFORMER, POWER	
T901	 1-449-350-11	(CND)....TRANSFORMER, POWER	

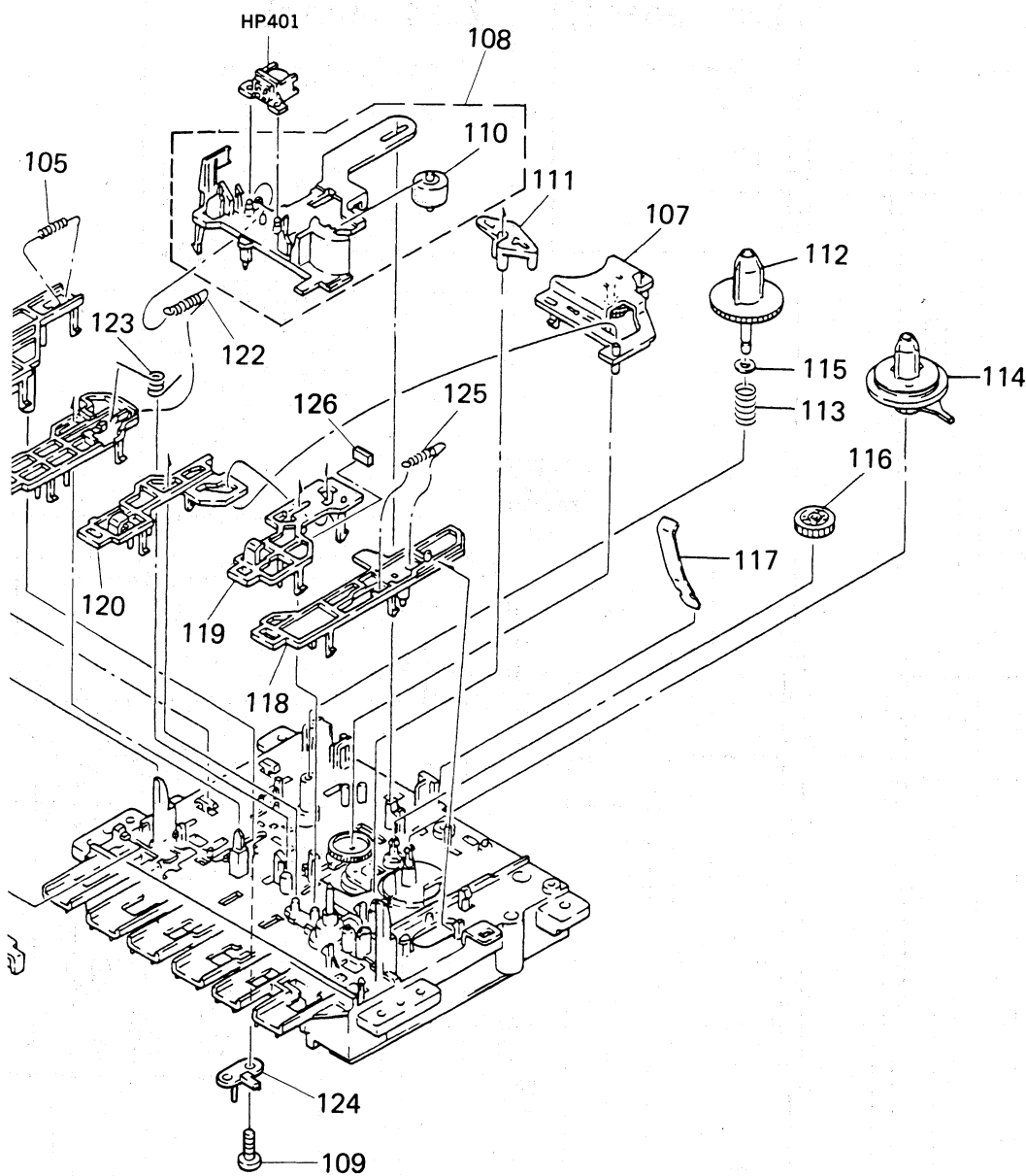
5-3. DECK A TAPE MECHANISM (1)
(MF-W304-64)



Ref.No	Part No.	Description	Remarks
101	4-932-695-01	SLIDER (FR), LOCK	
102	4-932-656-01	SPRING, COMPRESSION	
103	4-928-985-01	LEVER, STOP	
104	4-921-195-01	LEVER (AC), REC	
105	4-932-648-01	SPRING, COMPRESSION	
106	4-936-206-01	SLIDER (S), EJECT	
107	X-4920-347-1	LEVER (S) ASSY, FR	
108	X-4920-345-1	BASE (S) ASSY, HEAD	
109	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	
110	4-928-962-01	PINCH ROLLER	
111	4-928-982-01	LEVER (C)	
112	4-928-978-01	GEAR (C), SUPPLY REEL	
113	3-343-381-01	SPRING, COMPRESSION	
114	X-4920-350-1	GEAR (S) ASSY, T REEL	

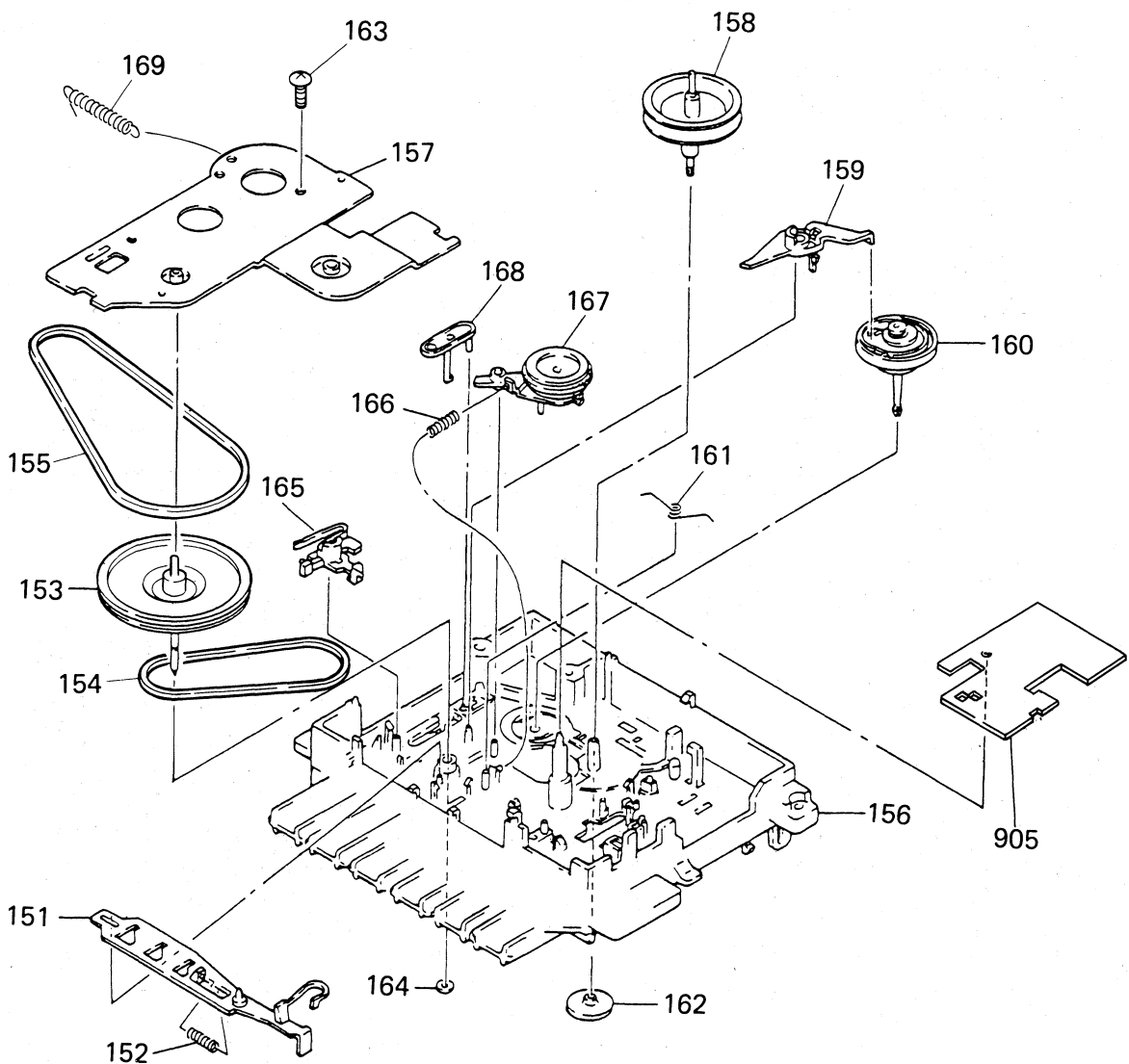
Ref.No	Part No.	Description	Remarks
115	4-931-795-11	WASHER	
116	3-343-285-01	GEAR, FF	
117	4-928-957-01	RETAINER, CASSETTE	
118	4-928-994-01	LEVER, PAUSE	
119	4-928-993-01	LEVER, FF	
120	4-928-992-01	LEVER, REW	
121	4-928-991-01	LEVER, PLAY	
122	4-928-972-01	SPRING, TENSION	
123	4-928-973-01	SPRING	
124	4-928-976-01	LEVER, SW	
125	3-313-372-01	SPRING, TENSION	
126	9-911-843-XX	SHEET, FF	
HP401	1-543-714-11	HEAD, MAGNETIC (PB)	

VISM (1)



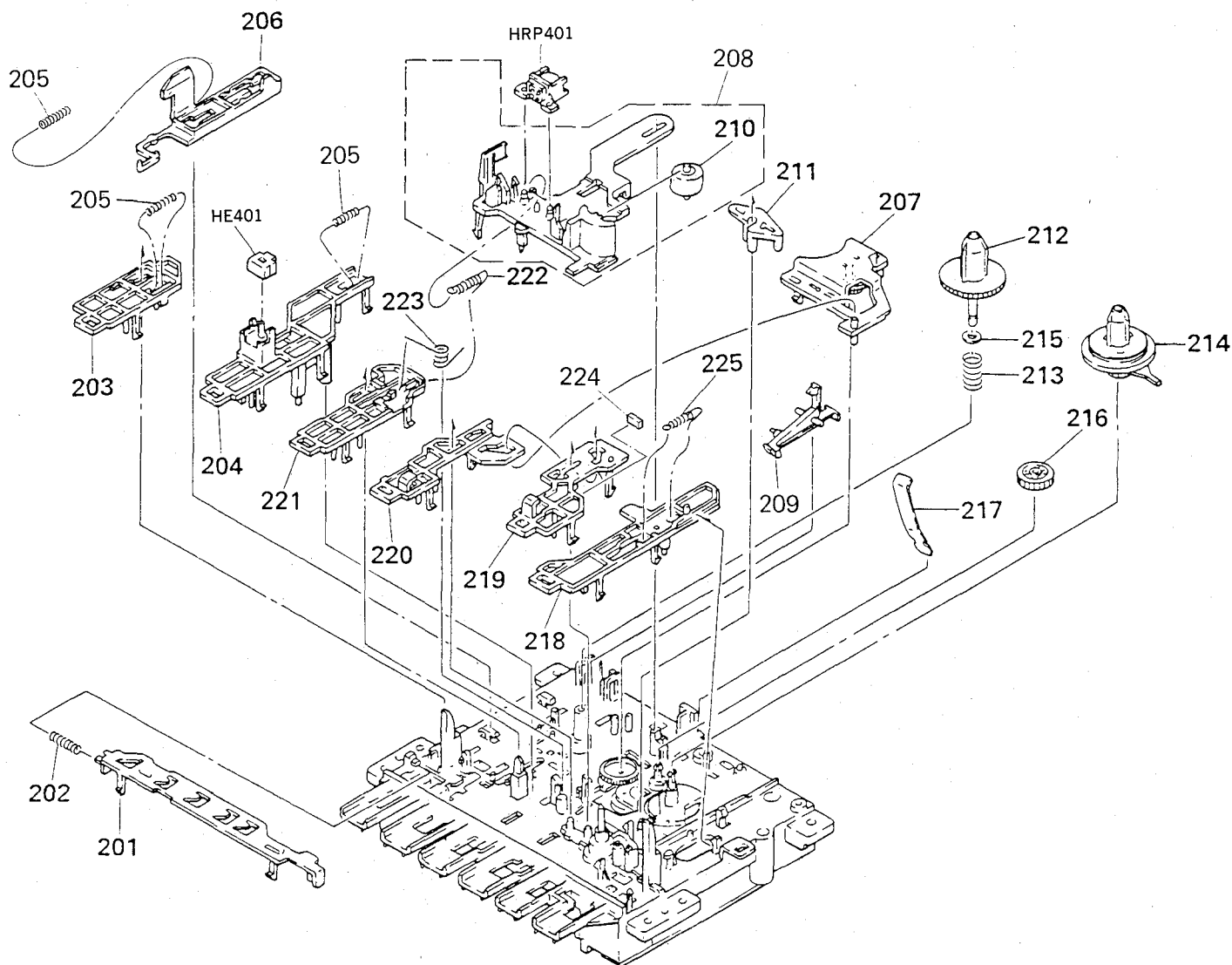
Remarks	Ref.No	Part No.	Description	Remarks
	115	4-931-795-11	WASHER	
	116	3-343-285-01	GEAR, FF	
	117	4-928-957-01	RETAINER, CASSETTE	
	118	4-928-994-01	LEVER, PAUSE	
	119	4-928-993-01	LEVER, FF	
	120	4-928-992-01	LEVER, REW	
	121	4-928-991-01	LEVER, PLAY	
	122	4-928-972-01	SPRING, TENSION	
	123	4-928-973-01	SPRING	
	124	4-928-976-01	LEVER, SW	
	125	3-313-372-01	SPRING, TENSION	
	126	9-911-843-XX	SHEET, FF	
	HP401	1-543-714-11	HEAD, MAGNETIC (PB)	

5-4. DECK A TAPE MECHANISM (2)
(MF-W304-64)



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
151	4-928-996-01	LEVER, SW		161	4-928-958-01	SPRING, FR RETURN	
152	4-932-656-01	SPRING, COMPRESSION		162	4-928-967-01	GEAR (C), MIDWAY	
153	X-4920-923-1	WHEEL (W) ASSY, CAPSTAN		163	7-685-144-19	SCREW +P 3X5 TYPE2 NON-SLIT	
154	4-928-974-01	BELT (MIDWAY)		164	3-343-358-01	RING, RETAINING	
155	4-934-520-01	BELT		165	4-928-987-01	LEVER (T), SHUT-OFF	
156	X-4920-348-1	CHASSIS (S) ASSY, MECHANICAL		166	4-932-655-01	SPRING, COMPRESSION	
157	*X-4918-598-1	PLATE ASSY, GROUND		167	X-4920-346-1	LEVER (S) ASSY, IDLER	
158	X-4920-922-1	PULLEY (W) ASSY, FR		168	4-928-961-01	PLATE, PAUSE LOCK	
159	4-928-986-01	LEVER (S), SHUT-OFF		169	3-322-527-01	SPRING, TENSION	
160	X-4918-582-1	PLATE ASSY, TAKE-UP REEL		905	1-634-896-21	PC BOARD, MD-A	

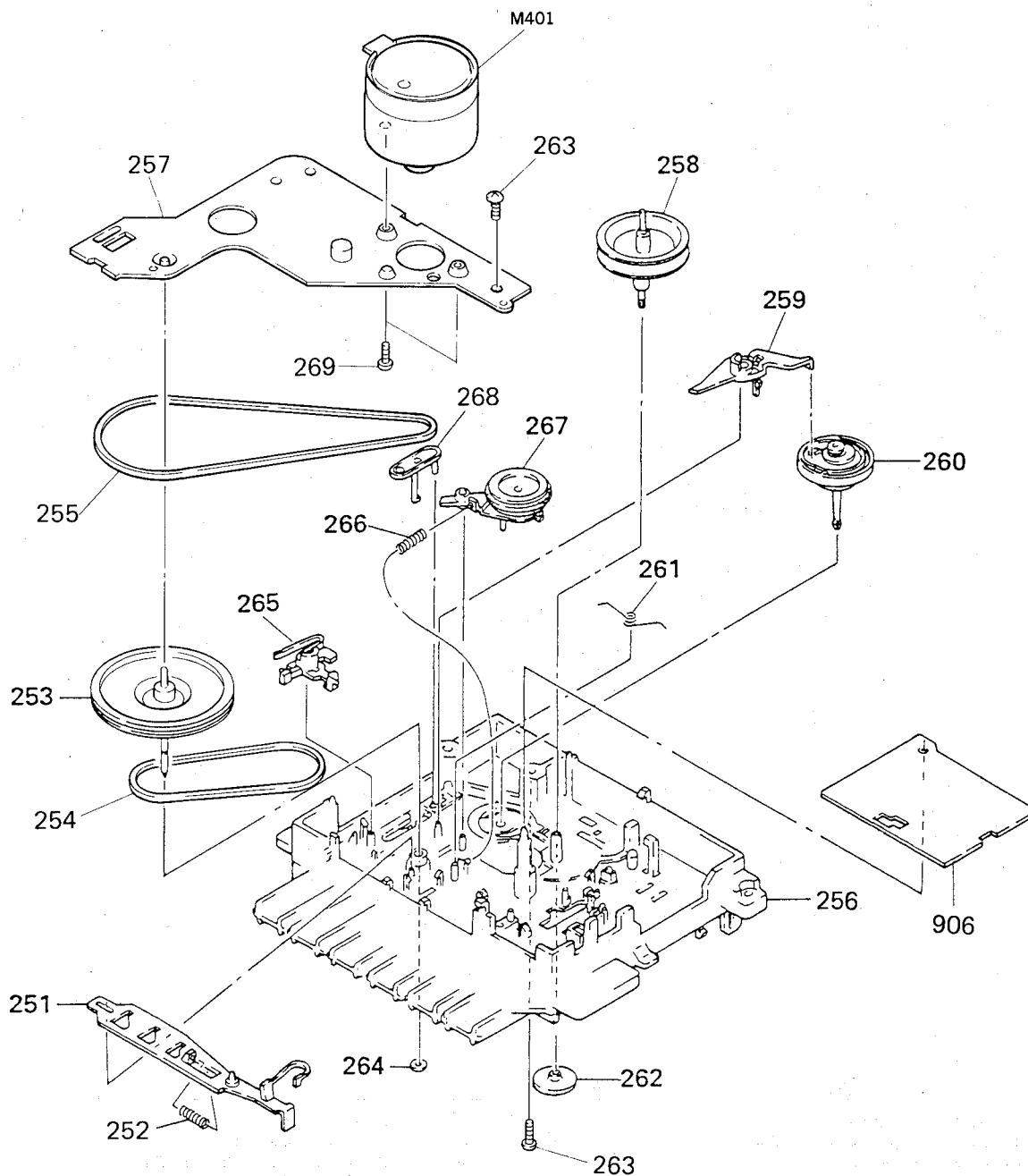
5-5. DECK A TAPE MECHANISM (1) (MF-W304-64)



Ref.No	Part No.	Description	Remarks
201	4-932-695-01	SLIDER (FR), LOCK	
202	4-932-656-01	SPRING, COMPRESSION	
203	4-928-985-01	LEVER, STOP	
204	4-934-511-01	LEVER (S), REC	
205	4-932-648-01	SPRING, COMPRESSION	
206	4-936-206-01	SLIDER (S), EJECT	
207	X-4920-347-1	LEVER (S) ASSY, FR	
208	X-4920-345-1	BASE (S) ASSY, HEAD	
209	4-928-960-02	CLAW, SAFETY	
210	4-928-962-01	PINCH ROLLER	
211	4-928-982-01	LEVER (C)	
212	4-928-978-01	GEAR (C), SUPPLY REEL	
213	3-343-381-01	SPRING, COMPRESSION	
214	X-4920-350-1	GEAR (S) ASSY, T REEL	

Ref.No	Part No.	Description	Remarks
215	4-931-795-11	WASHER	
216	3-343-285-01	GEAR, FF	
217	4-928-957-01	RETAINER, CASSETTE	
218	4-928-994-01	LEVER, PAUSE	
219	4-928-993-01	LEVER, FF	
220	4-928-992-01	LEVER, REW	
221	4-928-991-01	LEVER, PLAY	
222	4-928-972-01	SPRING, TENSION	
223	4-928-973-01	SPRING	
224	9-911-843-XX	SHEET, FF	
225	3-313-372-01	SPRING, TENSION	
HE401	1-543-525-11	HEAD, MAGNETIC (ERASE)	
HRP401	1-543-714-11	HEAD, MAGNETIC (REC/PB)	

5-6. DECK B TAPE MECHANISM (2) (MF-W304-64)



Ref.No	Part No.	Description	Remarks
251	4-928-996-01	LEVER, SW	
252	4-932-656-01	SPRING, COMPRESSION	
253	X-4920-923-1	WHEEL (W) ASSY, CAPSTAN	
254	4-928-974-01	BELT (MIDWAY)	
255	4-934-521-01	BELT	
256	X-4920-348-1	CHASSIS (S) ASSY, MECHANICAL	
257	X-4920-921-1	PLATE (W) ASSY, GROUND	
258	X-4920-922-1	PULLEY (W) ASSY, FR	
259	4-928-986-01	LEVER (S), SHUT-OFF	
260	X-4918-582-1	PLATE ASSY, TAKE-UP REEL	
261	4-928-958-01	SPRING, FR RETURN	

Ref.No	Part No.	Description	Remarks
262	4-928-967-01	GEAR (C), MIDWAY	
263	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	
264	3-343-358-01	RING, RETAINING	
265	4-928-987-01	LEVER (T), SHUT-OFF	
266	4-932-655-01	SPRING, COMPRESSION	
267	X-4920-346-1	LEVER (S) ASSY, IDLER	
268	4-928-961-01	PLATE, PAUSE LOCK	
269	3-343-251-01	SCREW (M2.6X2.5)	
906	1-634-897-21	PC BOARD, MD-B	
M401	X-4920-924-1	MOTOR ASSY	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,UPC....: μ PC, UPD....: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
901	*1-634-898-21	PC BOARD, GEQ
902	*1-634-901-11	PC BOARD, VOL
903	*A-3270-758-A	(US, CND).... MOUNTED PCB, MAIN
903	*A-3270-811-A	(AEP).... MOUNTED PCB, MAIN
903	*A-3270-813-A	(IT).... MOUNTED PCB, MAIN
904	*A-3270-769-A	(US).... MOUNTED PCB, POWER
904	*A-3270-770-A	(AEP, IT).... MOUNTED PCB, POWER
904	*A-3270-809-A	(CND).... MOUNTED PCB, POWER
905	*1-634-896-21	PC BOARD, MD-A
906	*1-634-897-21	PC BOARD, MD-B
907	1-533-217-31	(AEP, IT).... HOLDER, FUSE
ANT1	1-501-378-11	(AEP, IT).... ANTENNA, TELESCOPIC
ANT1	1-501-388-21	(US, CND).... ANTENNA, TELESCOPIC

CAPACITOR

C1	1-162-207-31	(US, CND).... CERAMIC	22PF	5%	50V
C1	1-162-208-31	(AEP, IT).... CERAMIC	24PF	5%	50V
C2	1-102-959-00	(AEP, IT).... CERAMIC	22PF	5%	50V
C2	1-102-961-00	(US, CND).... CERAMIC	27PF	5%	50V
C3	1-162-192-31	CERAMIC	2.7PF	10%	50V
C4	1-161-379-00	CERAMIC	0.01MF	30%	16V
C5	1-124-963-11	ELECT	33MF	20%	16V
C6	1-162-287-31	CERAMIC	270PF	10%	50V
C7	1-124-477-11	ELECT	47MF	20%	16V
C8	1-124-925-11	ELECT	2.2MF	20%	50V
C9	1-124-477-11	ELECT	47MF	20%	16V
C10	1-161-379-00	CERAMIC	0.01MF	30%	16V
C11	1-124-927-11	ELECT	4.7MF	20%	50V
C12	1-124-791-11	ELECT	1MF	20%	50V
C13	1-162-843-11	CERAMIC	0.022MF	10%	16V
C14	1-162-843-11	CERAMIC	0.022MF	10%	16V
C15	1-124-791-11	ELECT	1MF	20%	50V
C16	1-124-902-00	ELECT	0.47MF	20%	50V
C17	1-124-927-11	ELECT	4.7MF	20%	50V
C18	1-124-443-00	ELECT	100MF	20%	10V
C19	1-124-463-00	ELECT	0.1MF	20%	50V
C20	1-124-463-00	ELECT	0.1MF	20%	50V
C22	1-102-944-00	(US, CND).... CERAMIC	7PF	0.5PF	50V
C22	1-102-946-00	(IT).... CERAMIC	9PF	5%	50V
C23	1-161-379-00	CERAMIC	0.01MF	30%	16V
C36	1-124-927-11	ELECT	4.7MF	20%	50V
C37	1-161-379-00	CERAMIC	0.01MF	30%	16V
C38	1-162-294-31	CERAMIC	0.001MF	10%	50V
C39	1-161-379-00	CERAMIC	0.01MF	30%	16V
C40	1-162-199-31	CERAMIC	10PF	5%	50V
C101	1-162-294-31	CERAMIC	0.001MF	10%	50V
C102	1-124-902-00	ELECT	0.47MF	20%	50V
C103	1-162-282-31	CERAMIC	100PF	10%	50V
C104	1-162-292-31	CERAMIC	680PF	10%	50V
C105	1-162-294-31	CERAMIC	0.001MF	10%	50V

C106	1-124-477-11	ELECT	47MF	20%	16V
C107	1-162-840-11	CERAMIC	0.012MF	10%	16V
C108	1-162-292-31	CERAMIC	680PF	10%	50V
C109	1-123-875-11	ELECT	10MF	20%	50V
C110	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C111	1-162-286-31	CERAMIC	220PF	10%	50V
C112	1-124-902-00	ELECT	0.47MF	20%	50V
C113	1-162-294-31	CERAMIC	0.001MF	10%	50V
C114	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C150	1-124-925-11	ELECT	2.2MF	20%	50V
C151	1-162-294-31	CERAMIC	0.001MF	10%	50V
C152	1-124-791-11	ELECT	1MF	20%	50V
C153	1-124-791-11	ELECT	1MF	20%	50V
C154	1-124-927-11	ELECT	4.7MF	20%	50V
C155	1-162-294-31	CERAMIC	0.001MF	10%	50V
C157	1-124-443-00	ELECT	100MF	20%	10V
C158	1-124-902-00	ELECT	0.47MF	20%	50V
C159	1-124-443-00	ELECT	100MF	20%	10V
C160	1-124-443-00	ELECT	100MF	20%	10V
C161	1-130-489-00	MYLAR	0.033MF	5%	50V
C162	1-130-489-00	MYLAR	0.033MF	5%	50V
C163	1-124-477-11	ELECT	47MF	20%	16V
C164	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C201	1-162-294-31	CERAMIC	0.001MF	10%	50V
C202	1-124-902-00	ELECT	0.47MF	20%	50V
C203	1-162-282-31	CERAMIC	100PF	10%	50V
C204	1-162-292-31	CERAMIC	680PF	10%	50V
C205	1-162-294-31	CERAMIC	0.001MF	10%	50V
C206	1-124-477-11	ELECT	47MF	20%	16V
C207	1-162-840-11	CERAMIC	0.012MF	10%	16V
C208	1-162-292-31	CERAMIC	680PF	10%	50V
C209	1-123-875-11	ELECT	10MF	20%	50V
C210	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C211	1-162-286-31	CERAMIC	220PF	10%	50V
C212	1-124-902-00	ELECT	0.47MF	20%	50V
C213	1-162-294-31	CERAMIC	0.001MF	10%	50V
C214	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C250	1-124-925-11	ELECT	2.2MF	20%	50V
C251	1-162-294-31	CERAMIC	0.001MF	10%	50V
C252	1-124-791-11	ELECT	1MF	20%	50V
C253	1-124-791-11	ELECT	1MF	20%	50V
C254	1-124-927-11	ELECT	4.7MF	20%	50V
C255	1-162-294-31	CERAMIC	0.001MF	10%	50V
C257	1-124-443-00	ELECT	100MF	20%	10V
C258	1-124-902-00	ELECT	0.47MF	20%	50V
C259	1-124-443-00	ELECT	100MF	20%	10V
C260	1-124-443-00	ELECT	100MF	20%	10V
C261	1-130-489-00	MYLAR	0.033MF	5%	50V
C262	1-130-489-00	MYLAR	0.033MF	5%	50V
C263	1-124-477-11	ELECT	47MF	20%	16V
C264	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C301	1-124-902-00	ELECT	0.47MF	20%	50V
C302	1-162-294-31	CERAMIC	0.001MF	10%	50V
C303	1-124-791-11	ELECT	1MF	20%	50V
C310	1-124-443-00	ELECT	100MF	20%	10V

Ref.No	Part No.	Description			
C311	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C312	1-162-282-31	CERAMIC	100PF	10%	50V
C313	1-130-475-00	MYLAR	0.0022MF	5%	50V
C314	1-162-290-31	(AEP, IT).... CERAMIC	470PF	10%	50V
C315	1-162-286-31	(AEP, IT).... CERAMIC	220PF	10%	50V
C317	1-124-927-11	ELECT	4.7MF	20%	50V
C320	1-126-233-11	ELECT	22MF	20%	25V
C321	1-123-875-11	ELECT	10MF	20%	50V
C322	1-123-875-11	ELECT	10MF	20%	50V
C323	1-123-875-11	ELECT	10MF	20%	50V
C324	1-123-875-11	ELECT	10MF	20%	50V
C325	1-124-442-00	ELECT	330MF	20%	6.3V
C326	1-124-442-00	ELECT	330MF	20%	6.3V
C350	1-124-791-11	ELECT	1MF	20%	50V
C351	1-124-791-11	ELECT	1MF	20%	50V
C352	1-161-494-00	CERAMIC	0.022MF		25V
C353	1-161-494-00	CERAMIC	0.022MF		25V
C370	1-124-791-11	ELECT	1MF	20%	50V
C371	1-124-791-11	ELECT	1MF	20%	50V
C372	1-124-927-11	ELECT	4.7MF	20%	50V
C373	1-124-791-11	ELECT	1MF	20%	50V
C374	1-124-791-11	ELECT	1MF	20%	50V
C375	1-126-233-11	ELECT	22MF	20%	25V
C376	1-126-176-11	ELECT	220MF	20%	10V
C377	1-124-898-11	ELECT	4700MF	20%	16V
C378	1-124-443-00	ELECT	100MF	20%	10V
C379	1-161-379-00	CERAMIC	0.01MF	30%	16V
C380	1-124-472-11	ELECT	470MF	20%	10V
C381	1-126-176-11	ELECT	220MF	20%	10V
C382	1-124-472-11	ELECT	470MF	20%	10V
C383	1-124-442-00	ELECT	330MF	20%	6.3V
C401	1-124-477-11	ELECT	47MF	20%	16V
C402	1-161-379-00	CERAMIC	0.01MF	30%	16V
C901	1-101-006-00	CERAMIC	0.047MF		50V
C902	1-101-006-00	CERAMIC	0.047MF		50V
C905	1-164-097-11	CERAMIC	0.022MF		50V
C906	1-124-887-00	ELECT	3300MF	20%	16V
C907	1-101-006-00	CERAMIC	0.047MF		50V
C908	1-164-097-11	CERAMIC	0.022MF		50V
CF1	1-567-166-00	FILTER, CERAMIC			
CF2	1-567-166-00	FILTER, CERAMIC			
CF3	1-527-870-00	FILTER			
CNP301	*1-566-001-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP302	*1-566-002-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP350	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P			
CNP352	*1-566-007-11	PIN, CONNECTOR (PC BOARD) 10P			
CNP353	*1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P			
CNP354	*1-566-008-11	PIN, CONNECTOR (PC BOARD) 11P			
CNP365	*1-560-530-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP401	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CV1-4	1-151-615-11	(AEP, IT)....CAP, VARIABLE			
CT1-4					
CV1-4	1-151-624-11	(US, CND)....CAP, VARIABLE			
CT1-4					
D1	8-719-911-19	DIODE 1SS119			
D2	8-719-911-19	DIODE 1SS119			
D4	8-719-911-19	DIODE 1SS119			
D5	8-719-918-76	DIODE GL-3PR9			
D301	8-719-911-19	DIODE 1SS119			
D302	8-719-911-19	DIODE 1SS119			
D303	8-719-918-76	DIODE GL-3PR9			
D304	8-719-911-19	DIODE 1SS119			
D305	8-719-911-19	DIODE 1SS119			

Ref.No	Part No.	Description			
D306	8-719-911-19	DIODE 1SS119			
D307	8-719-911-19	DIODE 1SS119			
D350	8-719-986-74	DIODE RB441QT-77			
D351	8-719-109-97	DIODE RD6.8ES-B2			
D352	8-719-911-19	DIODE 1SS119			
D401	8-719-911-19	DIODE 1SS119			
D402	8-719-110-06	DIODE RD8.2ES-B1			
D901	8-719-902-17	(CND)....DIODE U15G			
D901	8-719-979-32	(US, AEP, IT)....DIODE RL202-M11			
D902	8-719-902-17	(CND)....DIODE U15G			
D902	8-719-979-32	(US, AEP, IT)....DIODE RL202-M11			
D903	8-719-902-17	(CND)....DIODE U15G			
D903	8-719-979-32	(US, AEP, IT)....DIODE RL202-M11			
D904	8-719-902-17	(CND)....DIODE U15G			
D904	8-719-979-32	(US, AEP, IT)....DIODE RL202-M11			
F901	△1-532-237-00	(AEP, IT)....FUSE, TIME LAG (T3, 15A)			
FL1	1-236-022-11	FILTER, BAND PASS			
HE401	1-543-525-11	HEAD, MAGNETIC (ERASE)			
HP401	1-543-714-11	HEAD, MAGNETIC (PB)			
HRP401	1-543-714-11	HEAD, MAGNETIC (REC/PB)			
IC1	8-752-035-68	IC CXA1238S			
IC301	8-759-501-37	IC BA3422S			
IC350	8-752-036-59	IC CXA1350S			
IC351	8-759-822-51	IC LA4620			
J301	1-563-716-11	JACK, PIN (CD/LINE IN)			
J302	1-563-330-11	JACK (MIX MIC)			
J303	1-566-891-11	JACK (PHONES)			
J901	△1-526-818-11	(US, CND)....INLET, AC (~AC IN)			
J901	△1-526-838-11	(AEP, IT)....INLET, AC 2P (~AC IN)			
KH302	*1-565-386-11	HOLDER, CABLE 5P			
KH303	*1-565-384-11	HOLDER, CABLE 3P			
KH304	*1-565-384-11	HOLDER, CABLE 3P			
KH305	*1-565-384-11	HOLDER, CABLE 3P			
KH401	*1-565-385-11	HOLDER, CABLE 4P			
KH402	*1-565-385-11	HOLDER, CABLE 4P			
KH405	*1-565-386-11	HOLDER, CABLE 5P			
L1	1-422-317-31	COIL, VHF			
L2	*1-422-230-11	(US, CND)....COIL, VHF			
L2	1-459-418-00	(AEP, IT)....COIL, (WITH CORE)			
L3	1-402-428-11	(AEP, IT)....ANTENNA, FERRITE-ROD (MW)			
L3	1-402-429-11	(US, CND)....ANTENNA, FERRITE-ROD (MW)			
L4	1-406-040-00	COIL (OSC)			
M401	X-4920-924-1	MOTOR ASSY			
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q310	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q350	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q370	8-729-177-32	TRANSISTOR 2SD773			
Q401	8-729-900-80	TRANSISTOR DTC114ES			
Q402	8-729-900-80	TRANSISTOR DTC114ES			
Q403	8-729-115-30	TRANSISTOR 2SK105A-30			
Q404	8-729-900-80	TRANSISTOR DTC114ES			
Q405	8-729-107-26	TRANSISTOR 2SD1585-K			
Q406	8-729-195-23	TRANSISTOR 2SA952-K2			
RESISTOR					
R1	1-249-441-11	CARBON	100K	5%	1/4W
R2	1-249-421-11	CARBON	2.2K	5%	1/4W
R3	1-249-415-11	CARBON	680	5%	1/4W
R4	1-249-405-11	CARBON	100	5%	1/4W

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description			
R5	1-249-427-11	CARBON	6.8K	5%	1/4W
R6	1-249-427-11	CARBON	6.8K	5%	1/4W
R7	1-247-887-00	CARBON	220K	5%	1/4W
R8	1-249-421-11	CARBON	2.2K	5%	1/4W
R9	1-247-887-00	CARBON	220K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R11	1-249-398-11	CARBON	27	5%	1/4W
R12	1-249-411-11	CARBON	330	5%	1/4W
R13	1-249-433-11	(AEP, IT)....			
		CARBON	22K	5%	1/4W
R14	1-249-405-11	CARBON	100	5%	1/4W
R19	1-249-415-11	CARBON	680	5%	1/4W
R20	1-249-423-11	CARBON	3.3K	5%	1/4W
R21	1-249-397-11	CARBON	22	5%	1/4W
R23	1-249-427-11	CARBON	6.8K	5%	1/4W
R24	1-249-429-11	CARBON	10K	5%	1/4W
R25	1-249-429-11	CARBON	10K	5%	1/4W
R101	1-249-437-11	CARBON	47K	5%	1/4W
R102	1-249-431-11	CARBON	15K	5%	1/4W
R103	1-249-429-11	CARBON	10K	5%	1/4W
R104	1-249-407-11	CARBON	150	5%	1/4W
R105	1-247-891-00	CARBON	330K	5%	1/4W
R106	1-249-425-11	CARBON	4.7K	5%	1/4W
R107	1-249-425-11	CARBON	4.7K	5%	1/4W
R108	1-249-437-11	CARBON	47K	5%	1/4W
R109	1-249-417-11	CARBON	1K	5%	1/4W
R110	1-249-405-11	CARBON	100	5%	1/4W
R111	1-249-413-11	CARBON	470	5%	1/4W
R150	1-249-428-11	CARBON	8.2K	5%	1/4W
R151	1-249-420-11	CARBON	1.8K	5%	1/4W
R152	1-249-423-11	CARBON	3.3K	5%	1/4W
R153	1-249-422-11	CARBON	2.7K	5%	1/4W
R154	1-249-423-11	CARBON	3.3K	5%	1/4W
R155	1-249-417-11	CARBON	1K	5%	1/4W
R156	△ 1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R157	△ 1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R158	1-249-417-11	CARBON	1K	5%	1/4W
R159	1-249-405-11	CARBON	100	5%	1/4W
R161	1-249-422-11	CARBON	2.7K	5%	1/4W
R201	1-249-437-11	CARBON	47K	5%	1/4W
R202	1-249-431-11	CARBON	15K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-407-11	CARBON	150	5%	1/4W
R205	1-247-891-00	CARBON	330K	5%	1/4W
R206	1-249-425-11	CARBON	4.7K	5%	1/4W
R207	1-249-425-11	CARBON	4.7K	5%	1/4W
R208	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-417-11	CARBON	1K	5%	1/4W
R210	1-249-405-11	CARBON	100	5%	1/4W
R211	1-249-413-11	CARBON	470	5%	1/4W
R250	1-249-428-11	CARBON	8.2K	5%	1/4W
R251	1-249-420-11	CARBON	1.8K	5%	1/4W
R252	1-249-423-11	CARBON	3.3K	5%	1/4W
R253	1-249-422-11	CARBON	2.7K	5%	1/4W
R254	1-249-423-11	CARBON	3.3K	5%	1/4W
R255	1-249-417-11	CARBON	1K	5%	1/4W
R256	△ 1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R257	△ 1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R258	1-249-417-11	CARBON	1K	5%	1/4W
R259	1-249-405-11	CARBON	100	5%	1/4W
R261	1-249-422-11	CARBON	2.7K	5%	1/4W
R301	1-249-417-11	CARBON	1K	5%	1/4W
R302	1-247-834-11	CARBON	1.3K	5%	1/4W
R303	1-249-434-11	CARBON	27K	5%	1/4W
R310	1-249-409-11	CARBON	220	5%	1/4W
R311	1-249-435-11	CARBON	33K	5%	1/4W

Ref.No	Part No.	Description			
R312	1-249-393-11	CARBON	10	5%	1/4W
R320	1-247-887-00	CARBON	220K	5%	1/4W
R321	1-249-429-11	CARBON	10K	5%	1/4W
R322	1-249-427-11	CARBON	6.8K	5%	1/4W
R323	1-249-427-11	CARBON	6.8K	5%	1/4W
R324	1-249-427-11	CARBON	6.8K	5%	1/4W
R325	1-249-427-11	CARBON	6.8K	5%	1/4W
R326	1-249-414-11	CARBON	560	5%	1/4W
R327	1-247-814-11	CARBON	200	5%	1/4W
R350	1-249-437-11	CARBON	47K	5%	1/4W
R351	1-249-425-11	CARBON	4.7K	5%	1/4W
R352	1-249-433-11	CARBON	22K	5%	1/4W
R353	1-249-434-11	CARBON	27K	5%	1/4W
R354	1-249-413-11	CARBON	470	5%	1/4W
R355	1-249-425-11	CARBON	4.7K	5%	1/4W
R356	1-249-413-11	CARBON	470	5%	1/4W
R357	1-249-409-11	CARBON	220	5%	1/4W
R358	1-247-885-00	CARBON	180K	5%	1/4W
R359	1-247-895-00	CARBON	470K	5%	1/4W
R360	1-249-429-11	CARBON	10K	5%	1/4W
R361	1-249-429-11	CARBON	10K	5%	1/4W
R362	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-249-435-11	CARBON	33K	5%	1/4W
R364	1-249-423-11	CARBON	3.3K	5%	1/4W
R365	1-249-431-11	CARBON	15K	5%	1/4W
R366	1-249-408-11	CARBON	180	5%	1/4W
R367	△ 1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R401	1-249-425-11	CARBON	4.7K	5%	1/4W
R402	1-249-437-11	CARBON	47K	5%	1/4W
R403	1-249-423-11	CARBON	3.3K	5%	1/4W
R404	1-249-407-11	CARBON	150	5%	1/4W
R405	1-249-404-00	CARBON	82	5%	1/4W
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-413-11	CARBON	470	5%	1/4W
R407	1-249-417-11	(AEP, IT)....			
		CARBON	1K	5%	1/4W
R408	△ 1-217-639-00	(US, CND)....			
		FUSIBLE	2.2	5%	1/4W F
RV1	1-228-995-00	RES, ADJ, CARBON 22K			
RV401	1-230-720-11	RES, ADJ, CARBON 5K			
RV402	1-230-494-11	RES, ADJ, CARBON 1K			
S1	1-554-481-31	SWITCH, SLIDE (BAND)			
S301	1-572-412-11	SWITCH, SLIDE (FUNCTION)			
S302	1-572-414-11	SWITCH, SLIDE (REC/PB)			
S303	1-571-307-11	(AEP, IT).... SWITCH, SLIDE (FM MODE/ISS)			
S350	1-571-832-11	SWITCH, PUSH (1 KEY) (MEGA BASS)			
S401	1-571-330-21	SWITCH, LEAF (POWER)			
S402	1-571-890-11	SWITCH, LEAF (HIGH SPEED)			
S451	1-571-330-21	SWITCH, LEAF (POWER)			
S452	1-571-890-11	SWITCH, LEAF (FWD)			
SP101	1-544-369-11	SPEAKER			
SP201	1-544-369-11	SPEAKER			
T1	1-404-341-00	TRANSFORMER, IF			
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR			
T901	△ 1-449-199-11	(US).... TRANSFORMER, POWER			
T901	△ 1-449-200-11	(AEP, IT).... TRANSFORMER, POWER			
T901	△ 1-449-350-11	(CND).... TRANSFORMER, POWER			
VR350	1-241-147-11	RES, VAR, CARBON 50K (VOLUME)			
VR351	1-241-149-11	RES, VAR, SLIDE 50KX4			
		(250Hz, 600Hz, 2.5kHz, 10kHz)			

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
--------	----------	-------------

ACCESSORIES & PACKING MATERIALS

△-1-555-234-00	(AEP, IT)....CORD, POWER
△-1-557-287-11	(CND)....CORD, POWER
△-1-559-047-11	(US)....CORD, POWER
* 3-359-366-01	INDIVIDUAL CARTON
* 3-359-370-01	CUSHION (L)
* 3-359-371-01	CUSHION (R)
3-703-390-01	(US)....INSTRUCTION
3-752-056-21	(US, CND)....MANUAL, INSTRUCTION (ENGLISH)
3-752-056-31	(CND)....MANUAL, INSTRUCTION (FRENCH)
3-752-056-41	(AEP)....MANUAL, INSTRUCTION
	(DUTCH, SWEDISH, SPANISH, PORTUGUESE)
3-752-056-51	(IT)....MANUAL, INSTRUCTION
	(ITALIAN, ENGLISH)

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.